

FIG. 1a

nucleotide-binding  
loop

EGF - R2 GFR1 RK EGF - R1 DGFR $\alpha$	806 456 978 799 576	$\alpha$ B		$\beta$ 1		$\beta$ 2		863 509 1025 856 622
		MDPDELPLDEHCE	RLPYDASKW	EFPRDR	LKLGLK	PLGRGAF	GQVEADAF	GIDKTATCR--
		--MLAGVSEY--	ELP-EDPRWEL	PRDR	VLGKPL	GEGCGQ	VLAEA	IGLDKDKPNRVT
		--VFP	CSVYPDEW	EVSR	EKITLL	RELQGS	FQGMVEGN	ARDI IKGEAE--T
		--VFP	CSVYPDEW	EVSR	EKITLL	RELQGS	FQGMVEGN	ARDI IKGEAE--T
EGF - R2 GFR1 RK EGF - R1 DGFR $\alpha$	806 456 978 799 576	$\alpha$ C		$\beta$ 3		$\beta$ 4		923 568 1083 916 681
		MDPDEVPLDEQC	ERLPYDASK	WEFARER	LKLGLK	SLGRGAF	GKVQASAF	GIKKSPTCR--
		--DPMQLPYD-	SRWEFPRD	GLVLGR	VLGSGAF	GKVQASAF	GIKKSPTCR--	
		--DPMQLPYD-	SRWEFPRD	GLVLGR	VLGSGAF	GKVQASAF	GIKKSPTCR--	
		--DPMQLPYD-	SRWEFPRD	GLVLGR	VLGSGAF	GKVQASAF	GIKKSPTCR--	
EGF - R2 GFR1 RK EGF - R1 DGFR $\alpha$	864 510 1026 857 623	$\alpha$ D		$\beta$ 5		$\beta$ 6		953 586 1095 946 741
		TVAVKMLKEGAT	HEHRLMSEL	KIL	IHIGHHLN	VNLLGACT	KPGG	PLMVI VEFCKFGN
		KVAVKMLKSDAT	EKDLSDL	I SEMEMMK	MI GKHKN	I INLLGACT	-QDGP	LYV IVEY A SKGN
		RVAVKTVNESAS	LREIER	IEFLNEAS	V MKGFTCH	-HVVRLLG	VVSK-GQPT	LVVMELMAHGD
		TVAVKMLKEGAT	ASEYKALMTEL	KIL	THIGHHLN	VNLLGACT	KQG	PLMVI VVEYCKYGN
'EGF - R2 GFR1 RK EGF - R1 DGFR $\alpha$	924 569 1084 917 682	$\alpha$ E		$\beta$ 7		$\beta$ 8		1010 605 1114 1004 800
		LSTYLR	SKRNEFV	PKTKGAR	FRQ	GKDYVG	---	---
		LREYLQ	ARRPP	GLE	CYN	---	---	---
		LKSYLR	SLRPEA	---	---	---	---	---
		LSNYL	KSKRDL	FFLNK	DAALHMEPK	KEKME	---	---
/EGF - R2 GFR1 IRK /EGF - R1 DGFR $\alpha$	954 587 1096 947 742	$\alpha$ F		$\beta$ 9		$\beta$ 10		1010 605 1114 1004 800
		LVNYL	HKNRDS	FLSHHP	EKPKKELD	I FGLNPA	DESTRSYV	I LSFENNGDYMDMKQADTTQ
		---	---	---	---	---	---	---
		---	---	---	---	---	---	---
		---	---	---	---	---	---	---
/EGF - R2 GFR1 IRK /EGF - R1 DGFR $\alpha$	954 587 1096 947 742	$\alpha$ G		$\beta$ 11		$\beta$ 12		1010 605 1114 1004 800
		---	---	---	---	---	---	---
		---	---	---	---	---	---	---
		---	---	---	---	---	---	---
		---	---	---	---	---	---	---

FIG. 1b

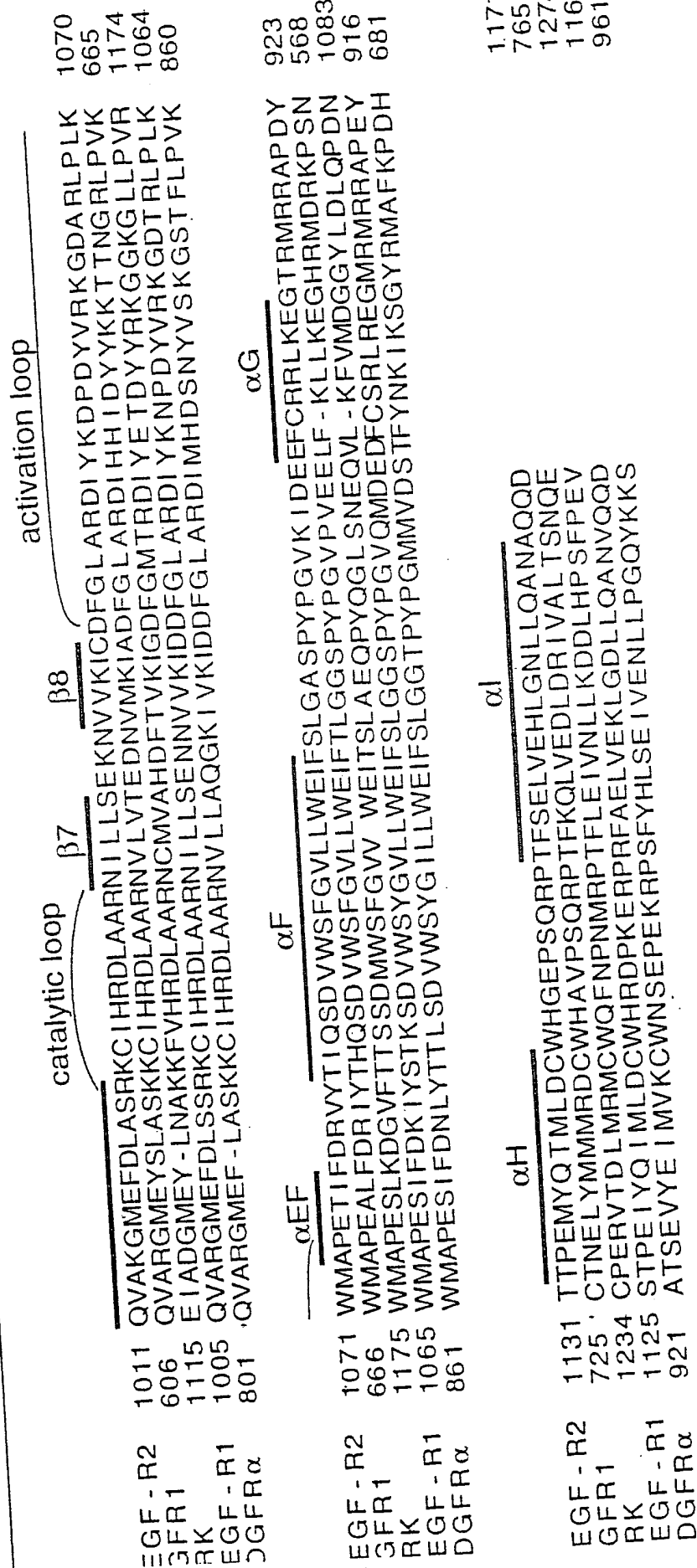
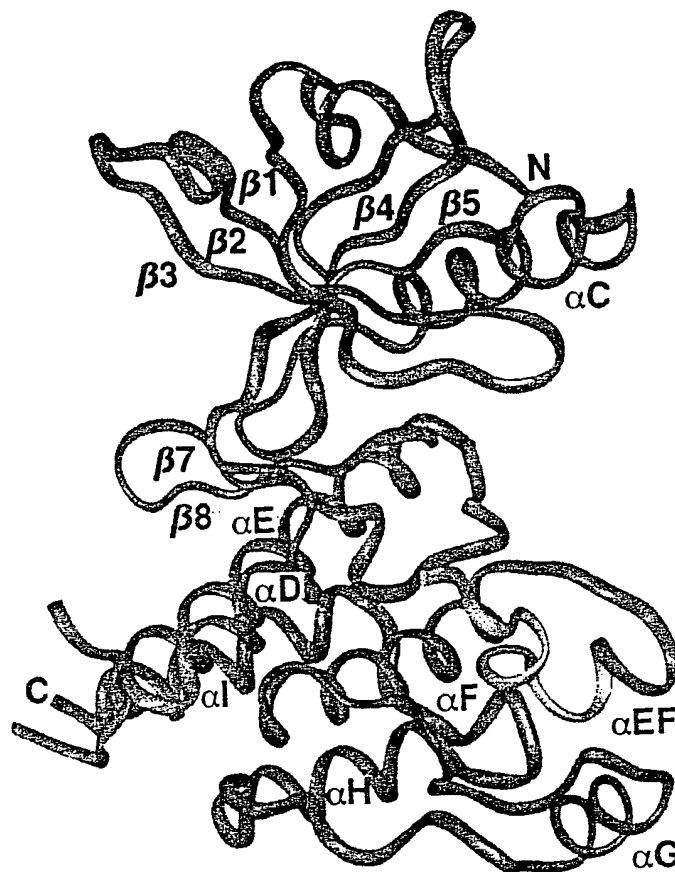


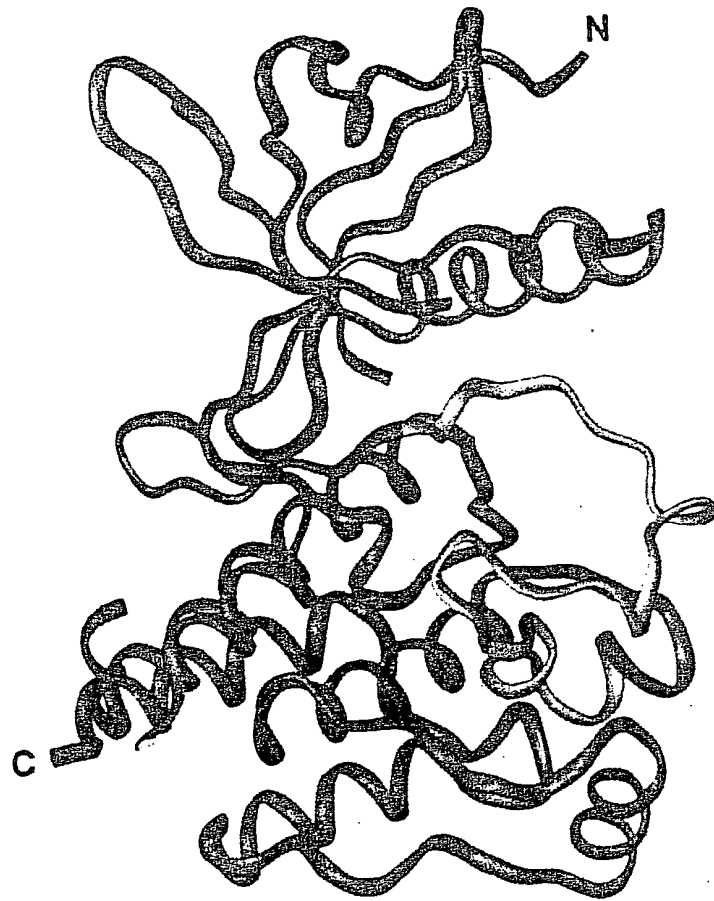
FIG. 2a



VEGFR2D50P

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FIG. 2b



FGFR1

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FIG. 2c



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FIG. 3a

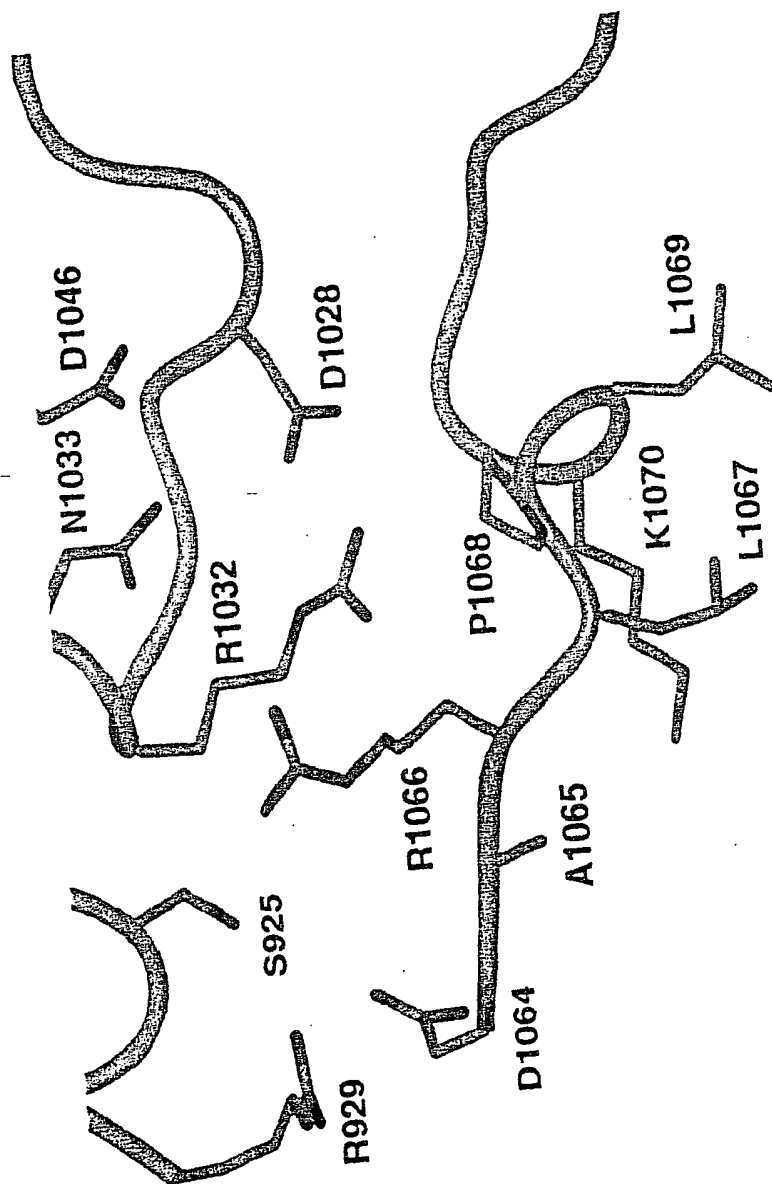


FIG. 3b

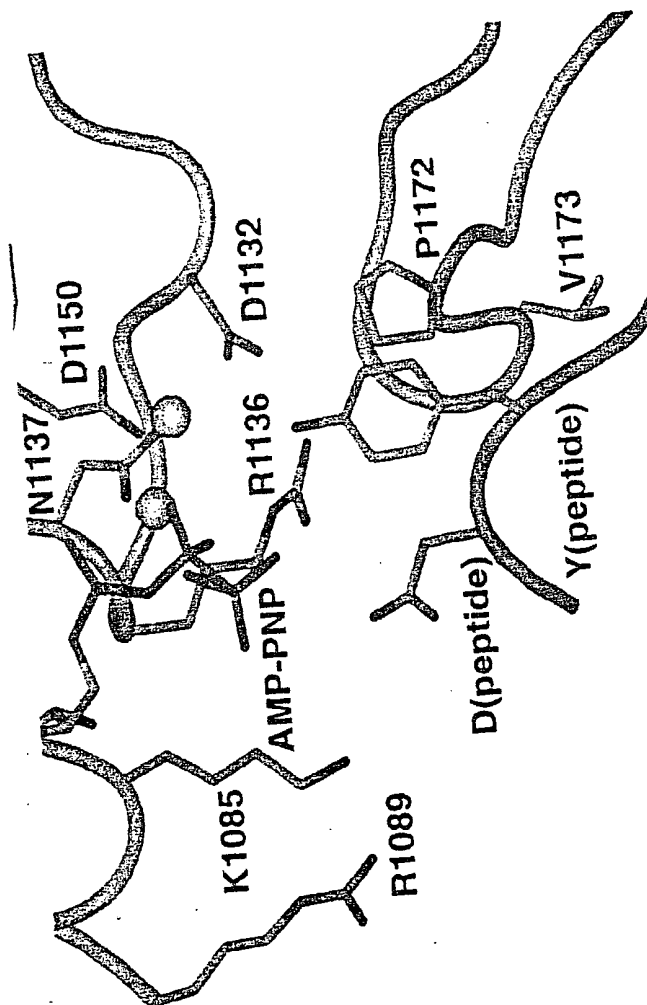
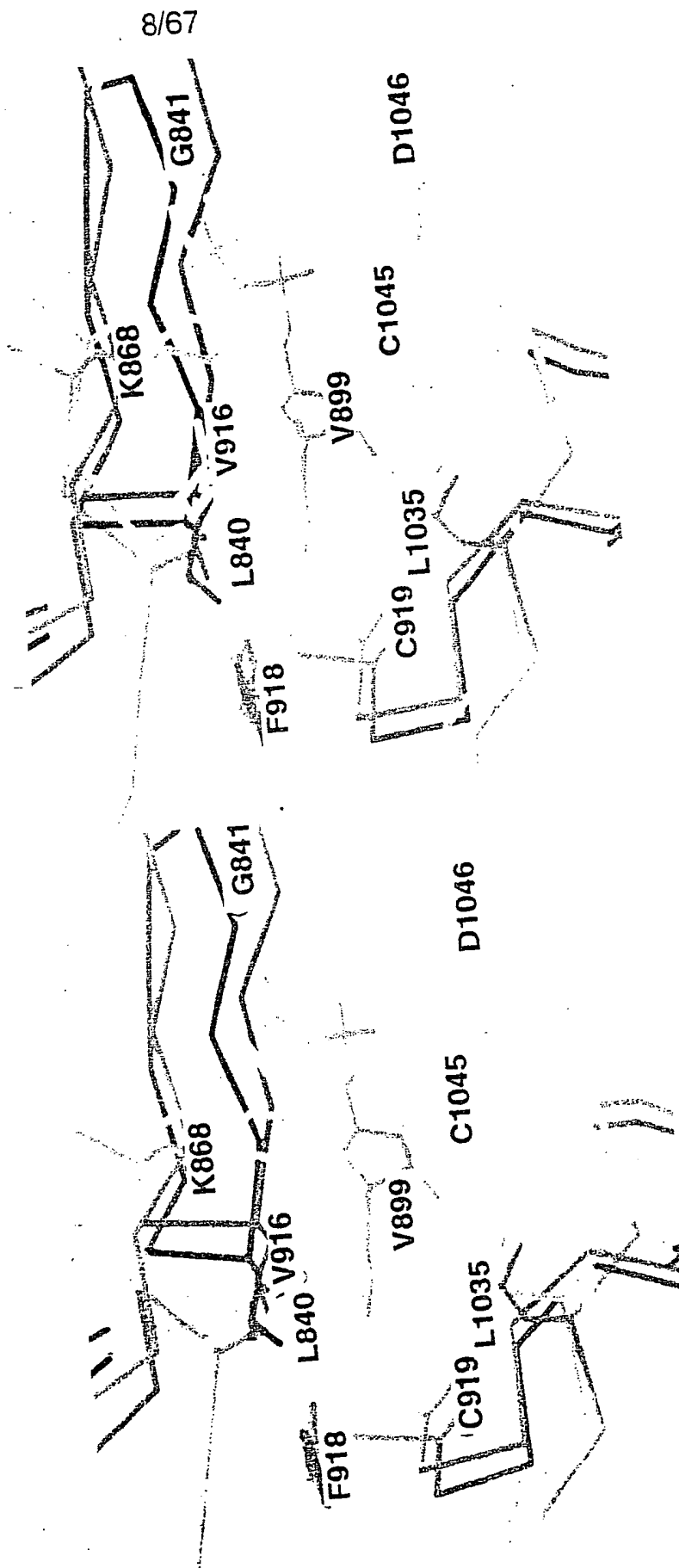


FIG. 4





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FIG. 5

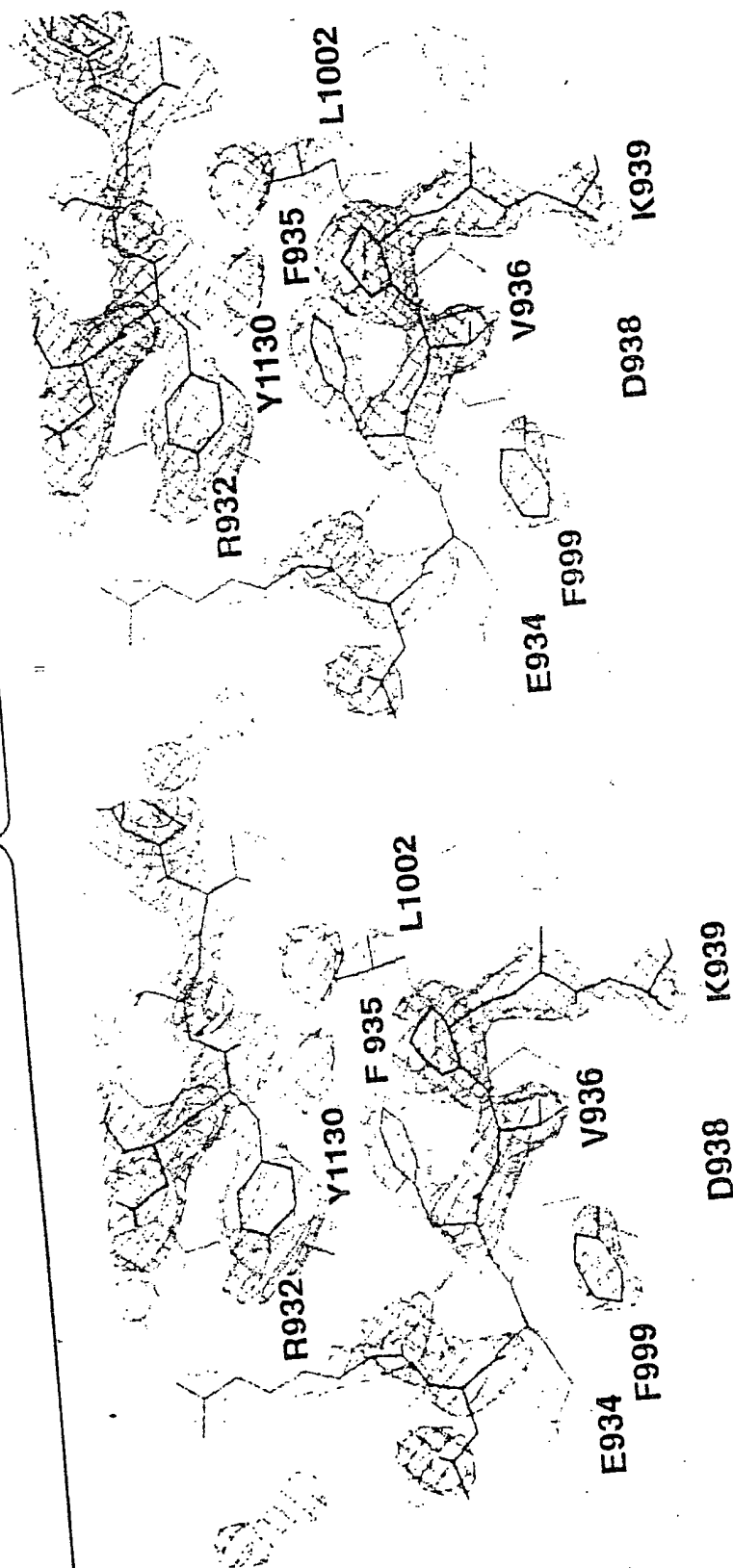


FIG. 6

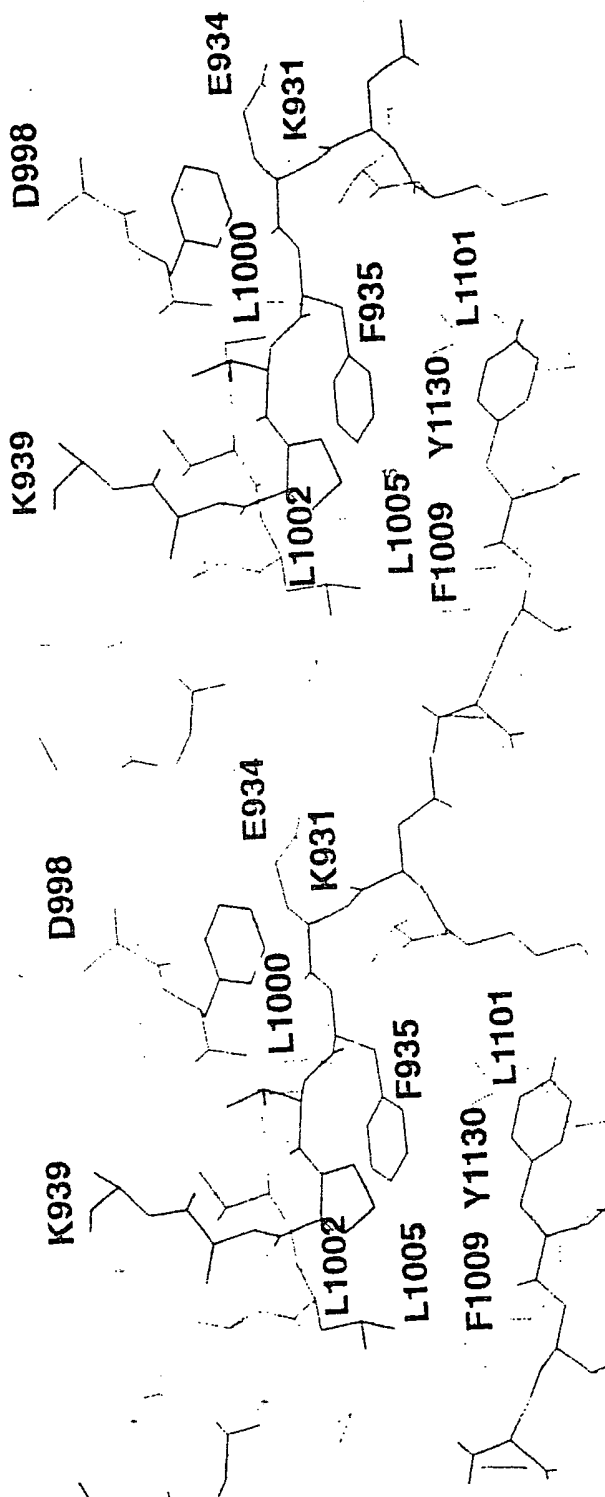


FIG. 7(1)

ATOM 1 CB LEU 820  
 ATOM 2 CG LEU 820  
 ATOM 3 CD1 LEU 820  
 ATOM 4 CD2 LEU 820  
 ATOM 5 C LEU 820  
 ATOM 6 O LEU 820  
 ATOM 9 N LEU 820  
 ATOM 11 CA LEU 820  
 ATOM 12 N PRO 821  
 ATOM 13 CD PRO 821  
 ATOM 14 CA PRO 821  
 ATOM 15 CB PRO 821  
 ATOM 16 CG PRO 821  
 ATOM 17 C PRO 821  
 ATOM 18 O PRO 821  
 ATOM 19 N TYR 822  
 ATOM 21 CA TYR 822  
 ATOM 22 CB TYR 822  
 ATOM 23 CG TYR 822  
 ATOM 24 CD1 TYR 822  
 ATOM 25 CE1 TYR 822  
 ATOM 26 CD2 TYR 822  
 ATOM 27 CE2 TYR 822  
 ATOM 28 CZ TYR 822  
 ATOM 29 OH TYR 822  
 ATOM 31 C TYR 822  
 ATOM 32 O TYR 822  
 ATOM 33 N ASP 823  
 ATOM 35 CA ASP 823  
 ATOM 36 CB ASP 823  
 ATOM 37 CG ASP 823  
 ATOM 38 OD1 ASP 823  
 ATOM 39 OD2 ASP 823  
 ATOM 40 C ASP 823  
 ATOM 41 O ASP 823  
 ATOM 42 N ALA 824  
 ATOM 44 CA ALA 824  
 ATOM 45 CB ALA 824  
 ATOM 46 C ALA 824  
 ATOM 47 O ALA 824

49.908 45.905 17.938 1.00 48.95  
 50.568 45.069 16.833 1.00 43.57  
 50.004 45.358 15.456 1.00 43.59  
 52.066 45.345 16.886 1.00 47.45  
 49.216 48.321 17.530 1.00 48.14  
 48.196 48.587 18.187 1.00 52.58  
 50.481 47.725 19.581 1.00 53.68  
 50.302 47.387 18.117 1.00 50.63  
 49.435 48.842 16.306 1.00 41.32  
 50.680 48.870 15.520 1.00 45.54  
 48.465 49.733 15.700 1.00 31.06  
 49.067 49.985 14.352 1.00 28.89  
 50.509 50.148 14.734 1.00 43.44  
 47.123 49.165 15.569 1.00 26.14  
 46.948 47.970 15.374 1.00 26.03  
 46.154 50.024 15.776 1.00 16.25  
 44.799 49.643 15.582 1.00 18.88  
 44.061 49.519 16.916 1.00 17.42  
 42.584 49.316 16.728 1.00 18.46  
 41.674 50.341 17.047 1.00 21.12  
 40.314 50.206 16.812 1.00 13.80  
 42.086 48.144 16.175 1.00 12.24  
 40.714 47.997 15.951 1.00 13.44  
 39.838 49.028 16.268 1.00 14.38  
 38.480 48.887 16.073 1.00 19.73  
 44.253 50.760 14.705 1.00 16.93  
 44.172 51.904 15.112 1.00 20.70  
 44.054 50.456 13.439 1.00 15.20  
 43.509 51.418 12.506 1.00 13.55  
 43.856 50.945 11.091 1.00 11.37  
 43.456 51.933 10.016 1.00 16.45  
 42.546 52.754 10.258 1.00 21.86  
 44.022 51.854 8.904 1.00 12.33  
 41.983 51.489 12.738 1.00 14.14  
 41.224 50.722 12.172 1.00 19.73  
 41.539 52.415 13.572 1.00 11.88  
 40.126 52.554 13.876 1.00 14.80  
 39.928 53.610 14.973 1.00 12.02  
 39.259 52.893 12.658 1.00 19.09  
 38.062 52.610 12.641 1.00 23.54

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ATOM	48	N	SER	825
ATOM	50	CA	SER	825
ATOM	51	CB	SER	825
ATOM	52	OG	SER	825
ATOM	54	C	SER	825
ATOM	55	O	SER	825
ATOM	56	N	LYS	826
ATOM	58	CA	LYS	826
ATOM	59	CB	LYS	826
ATOM	60	CG	LYS	826
ATOM	61	CD	LYS	826
ATOM	62	CE	LYS	826
ATOM	63	NZ	LYS	826
ATOM	67	C	LYS	826
ATOM	68	O	LYS	826
ATOM	69	N	TRP	827
ATOM	71	CA	TRP	827
ATOM	72	CB	TRP	827
ATOM	73	CG	TRP	827
ATOM	74	CD2	TRP	827
ATOM	75	CE2	TRP	827
ATOM	76	CE3	TRP	827
ATOM	77	CD1	TRP	827
ATOM	78	NE1	TRP	827
ATOM	80	CZ2	TRP	827
ATOM	81	CZ3	TRP	827
ATOM	82	CH2	TRP	827
ATOM	83	C	TRP	827
ATOM	84	O	TRP	827
ATOM	85	N	GLU	828
ATOM	87	CA	GLU	828
ATOM	88	CB	GLU	828
ATOM	89	CG	GLU	828
ATOM	90	CD	GLU	828
ATOM	91	OE1	GLU	828
ATOM	92	OE2	GLU	828
ATOM	93	C	GLU	828
ATOM	94	O	GLU	828
ATOM	95	N	PHE	829
ATOM	97	CA	PHE	829
ATOM	98	CB	PHE	829
ATOM	99	CG	PHE	829

39.857	53.496	11.635	1.00	18.25
39.118	53.867	10.450	1.00	12.65
40.023	54.678	9.543	1.00	11.88
39.315	55.003	8.370	1.00	20.94
38.669	52.594	9.746	1.00	12.30
37.543	52.461	9.317	1.00	14.94
39.557	51.633	9.642	1.00	14.98
39.188	50.396	8.988	1.00	22.45
40.445	49.660	8.483	1.00	16.46
40.091	48.370	7.820	1.00	23.00
40.962	48.071	6.657	1.00	26.19
42.391	48.041	7.092	1.00	35.70
43.272	48.003	5.891	1.00	40.17
38.324	49.437	9.839	1.00	21.47
37.363	48.850	9.336	1.00	22.56
38.589	49.376	11.144	1.00	20.96
37.917	48.406	11.996	1.00	16.87
38.974	47.620	12.785	1.00	18.53
39.942	46.898	11.910	1.00	12.95
39.643	45.810	11.029	1.00	9.73
40.795	45.562	10.274	1.00	9.36
38.505	45.038	10.801	1.00	11.54
41.233	47.231	11.684	1.00	12.87
41.753	46.440	10.689	1.00	10.49
40.848	44.565	9.299	1.00	12.36
38.556	44.053	9.826	1.00	10.55
39.718	43.830	9.087	1.00	11.88
36.830	48.795	12.953	1.00	17.75
35.985	47.951	13.271	1.00	15.08
36.855	50.043	13.416	1.00	16.92
35.908	50.518	14.413	1.00	19.52
36.289	51.920	14.885	1.00	17.10
35.581	52.363	16.148	1.00	12.70
36.106	51.707	17.400	1.00	21.57
37.219	51.118	17.386	1.00	21.15
35.402	51.819	18.426	1.00	22.43
34.494	50.510	13.910	1.00	20.94
34.245	51.024	12.818	1.00	26.92
33.569	49.990	14.734	1.00	21.12
32.138	49.880	14.391	1.00	17.93
31.791	48.400	14.160	1.00	16.42
30.384	48.164	13.669	1.00	20.17

FIG. 7(5)

ATOM 100 CD1 PHE 829  
 ATOM 101 CD2 PHE 829  
 ATOM 102 CE1 PHE 829  
 ATOM 103 CE2 PHE 829  
 ATOM 104 CZ PHE 829  
 ATOM 105 C PHE 829  
 ATOM 106 O PHE 829  
 ATOM 107 N PRO 830  
 ATOM 108 CD PRO 830  
 ATOM 109 CA PRO 830  
 ATOM 110 CB PRO 830  
 ATOM 111 CG PRO 830  
 ATOM 112 C PRO 830  
 ATOM 113 O PRO 830  
 ATOM 114 N ARG 831  
 ATOM 116 CA ARG 831  
 ATOM 117 CB ARG 831  
 ATOM 118 CG ARG 831  
 ATOM 119 CD ARG 831  
 ATOM 120 NE ARG 831  
 ATOM 122 CZ ARG 831  
 ATOM 123 NH1 ARG 831  
 ATOM 126 NH2 ARG 831  
 ATOM 129 C ARG 831  
 ATOM 130 O ARG 831  
 ATOM 131 N ASP 832  
 ATOM 133 CA ASP 832  
 ATOM 134 CB ASP 832  
 ATOM 135 CG ASP 832  
 ATOM 136 OD1 ASP 832  
 ATOM 137 OD2 ASP 832  
 ATOM 138 C ASP 832  
 ATOM 139 O ASP 832  
 ATOM 140 N ARG 833  
 ATOM 142 CA ARG 833  
 ATOM 143 CB ARG 833  
 ATOM 144 CG ARG 833  
 ATOM 145 CD ARG 833  
 ATOM 146 NE ARG 833  
 ATOM 148 CZ ARG 833  
 ATOM 149 NH1 ARG 833  
 ATOM 152 NH2 ARG 833  
 ATOM 155 C ARG 833

30.020 48.484 12.363 1.00 21.31  
 29.415 47.612 14.516 1.00 23.04  
 28.712 48.254 11.921 1.00 18.76  
 28.093 47.375 14.071 1.00 15.20  
 27.750 47.692 12.792 1.00 17.17  
 31.310 50.495 15.533 1.00 14.65  
 31.574 50.211 16.686 1.00 16.15  
 30.270 51.298 15.224 1.00 13.29  
 29.707 51.633 13.901 1.00 11.63  
 29.481 51.918 16.292 1.00 14.76  
 28.636 52.948 15.565 1.00 13.82  
 28.414 52.364 14.252 1.00 14.42  
 28.629 51.005 17.098 1.00 19.79  
 27.750 50.339 16.562 1.00 26.60  
 28.830 51.060 18.410 1.00 18.39  
 28.085 50.246 19.335 1.00 14.56  
 28.469 50.580 20.743 1.00 11.53  
 29.808 50.050 21.092 1.00 12.65  
 30.117 50.265 22.554 1.00 12.46  
 31.261 51.148 22.584 1.00 20.55  
 32.469 50.756 22.885 1.00 12.04  
 32.688 49.518 23.234 1.00 23.80  
 33.467 51.501 22.526 1.00 23.84  
 26.625 50.415 19.174 1.00 18.55  
 25.852 49.561 19.607 1.00 25.61  
 26.221 51.517 18.552 1.00 25.32  
 24.794 51.734 18.354 1.00 29.47  
 24.393 53.230 18.408 1.00 34.15  
 24.817 54.036 17.174 1.00 33.50  
 25.519 53.528 16.280 1.00 34.09  
 24.422 55.216 17.110 1.00 41.48  
 24.230 51.000 17.139 1.00 27.13  
 23.023 50.905 16.991 1.00 28.08  
 25.104 50.466 16.290 1.00 24.18  
 24.684 49.695 15.134 1.00 19.93  
 25.661 49.902 14.011 1.00 25.94  
 25.313 51.073 13.158 1.00 38.97  
 25.929 50.901 11.766 1.00 53.19  
 25.525 51.930 10.807 1.00 63.47  
 25.419 53.229 11.087 1.00 70.42  
 25.040 54.080 10.139 1.00 74.08  
 25.695 53.690 12.306 1.00 72.08  
 24.656 48.218 15.498 1.00 18.62

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## FIG. 7(4)

ATOM 156 O ARG 833  
 ATOM 157 N LEU 834  
 ATOM 159 CA LEU 834  
 ATOM 160 CB LEU 834  
 ATOM 161 CG LEU 834  
 ATOM 162 CD1 LEU 834  
 ATOM 163 CD2 LEU 834  
 ATOM 164 C LEU 834  
 ATOM 165 O LEU 834  
 ATOM 166 N LYS 835  
 ATOM 168 CA LYS 835  
 ATOM 169 CB LYS 835  
 ATOM 170 CG LYS 835  
 ATOM 171 CD LYS 835  
 ATOM 172 CE LYS 835  
 ATOM 173 NZ LYS 835  
 ATOM 177 C LYS 835  
 ATOM 178 O LYS 835  
 ATOM 179 N LEU 836  
 ATOM 181 CA LEU 836  
 ATOM 182 CB LEU 836  
 ATOM 183 CG LEU 836  
 ATOM 184 CD1 LEU 836  
 ATOM 185 CD2 LEU 836  
 ATOM 186 C LEU 836  
 ATOM 187 O LEU 836  
 ATOM 188 N GLY 837  
 ATOM 190 CA GLY 837  
 ATOM 191 C GLY 837  
 ATOM 192 O GLY 837  
 ATOM 193 N LYS 838  
 ATOM 195 CA LYS 838  
 ATOM 196 CB LYS 838  
 ATOM 197 C LYS 838  
 ATOM 198 O LYS 838  
 ATOM 199 N PRO 839  
 ATOM 200 CD PRO 839  
 ATOM 201 CA PRO 839  
 ATOM 202 CB PRO 839  
 ATOM 203 CG PRO 839  
 ATOM 204 C PRO 839  
 ATOM 205 O PRO 839  
 ATOM 206 N LEU 840

24.289 47.370 14.690 1.00 18.27  
 25.013 47.943 16.747 1.00 18.35  
 25.089 46.600 17.329 1.00 22.59  
 26.488 46.398 17.946 1.00 25.91  
 27.073 45.003 18.139 1.00 24.64  
 27.185 44.327 16.805 1.00 21.77  
 28.428 45.085 18.785 1.00 17.43  
 23.988 46.326 18.387 1.00 24.77  
 23.886 46.973 19.433 1.00 24.03  
 23.173 45.335 18.087 1.00 28.94  
 22.072 44.942 18.940 1.00 32.84  
 20.794 44.913 18.081 1.00 31.34  
 19.529 44.697 18.839 1.00 36.63  
 18.359 44.407 17.940 1.00 39.31  
 17.074 44.414 18.783 1.00 48.99  
 17.074 43.448 19.950 1.00 48.86  
 22.431 43.532 19.420 1.00 31.79  
 22.408 42.609 18.616 1.00 34.57  
 22.854 43.395 20.680 1.00 33.17  
 23.229 42.101 21.277 1.00 34.01  
 23.970 42.292 22.593 1.00 33.96  
 25.400 42.796 22.462 1.00 42.50  
 26.082 42.858 23.854 1.00 41.15  
 26.153 41.860 21.501 1.00 40.93  
 22.053 41.181 21.547 1.00 33.27  
 21.017 41.631 22.025 1.00 31.15  
 22.268 39.882 21.330 1.00 36.34  
 21.228 38.881 21.536 1.00 34.95  
 21.603 37.761 22.497 1.00 35.64  
 22.203 37.980 23.554 1.00 39.23  
 21.254 36.541 22.126 1.00 35.31  
 21.531 35.375 22.962 1.00 37.86  
 20.647 34.192 22.539 1.00 41.52  
 22.991 34.935 22.989 1.00 35.93  
 23.650 34.851 21.946 1.00 34.37  
 23.499 34.608 24.187 1.00 33.68  
 22.820 34.757 25.486 1.00 34.48  
 24.880 34.158 24.363 1.00 37.11  
 24.927 33.750 25.833 1.00 37.46  
 23.970 34.710 26.472 1.00 37.04  
 25.148 32.963 23.474 1.00 39.09  
 24.303 32.085 23.327 1.00 38.13  
 26.261 33.013 22.767 1.00 43.08

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## FIG. 7(5)

ATOM 208 CA LEU 840  
 ATOM 209 CB LEU 840  
 ATOM 210 CG LEU 840  
 ATOM 211 CD1 LEU 840  
 ATOM 212 CD2 LEU 840  
 ATOM 213 C LEU 840  
 ATOM 214 O LEU 840  
 ATOM 215 N GLY 841  
 ATOM 217 CA GLY 841  
 ATOM 218 C GLY 841  
 ATOM 219 O GLY 841  
 ATOM 220 N ARG 842  
 ATOM 222 CA ARG 842  
 ATOM 223 CB ARG 842  
 ATOM 224 C ARG 842  
 ATOM 225 O ARG 842  
 ATOM 226 N GLY 843  
 ATOM 228 CA GLY 843  
 ATOM 229 C GLY 843  
 ATOM 230 O GLY 843  
 ATOM 231 N ALA 844  
 ATOM 233 CA ALA 844  
 ATOM 234 CB ALA 844  
 ATOM 235 C ALA 844  
 ATOM 236 O ALA 844  
 ATOM 237 N PHE 845  
 ATOM 239 CA PHE 845  
 ATOM 240 CB PHE 845  
 ATOM 241 C PHE 845  
 ATOM 242 O PHE 845  
 ATOM 243 N GLY 846  
 ATOM 245 CA GLY 846  
 ATOM 246 C GLY 846  
 ATOM 247 O GLY 846  
 ATOM 248 N GLN 847  
 ATOM 250 CA GLN 847  
 ATOM 251 CB GLN 847  
 ATOM 252 CG GLN 847  
 ATOM 253 CD GLN 847  
 ATOM 254 OE1 GLN 847  
 ATOM 255 NE2 GLN 847  
 ATOM 258 C GLN 847  
 ATOM 259 O GLN 847

26.646 31.915 21.917 1.00 47.73  
 27.396 32.426 20.692 1.00 41.83  
 26.386 32.957 19.697 1.00 39.60  
 27.080 33.697 18.595 1.00 42.69  
 25.582 31.795 19.156 1.00 38.40  
 27.523 30.987 22.747 1.00 54.84  
 27.479 29.768 22.577 1.00 59.76  
 28.248 31.563 23.706 1.00 60.51  
 29.140 30.781 24.547 1.00 60.96  
 29.660 31.544 25.750 1.00 63.95  
 29.497 32.764 25.857 1.00 64.35  
 30.279 30.809 26.668 1.00 65.26  
 30.823 31.388 27.887 1.00 65.12  
 30.027 30.897 29.091 1.00 61.50  
 32.300 30.995 28.004 1.00 64.23  
 32.957 30.720 26.986 1.00 68.80  
 32.822 31.003 29.226 1.00 60.14  
 34.206 30.639 29.453 1.00 60.53  
 34.676 31.165 30.789 1.00 62.56  
 33.902 31.764 31.535 1.00 61.31  
 35.925 30.888 31.140 1.00 66.30  
 36.450 31.390 32.403 1.00 69.69  
 37.655 30.574 32.851 1.00 68.47  
 36.839 32.855 32.212 1.00 73.15  
 36.723 33.667 33.144 1.00 75.00  
 37.251 33.184 30.981 1.00 76.12  
 37.699 34.538 30.618 1.00 74.99  
 39.135 34.479 30.014 1.00 72.01  
 36.766 35.353 29.700 1.00 73.81  
 36.404 36.499 30.020 1.00 76.82  
 36.368 34.767 28.576 1.00 68.48  
 35.527 35.495 27.645 1.00 61.76  
 34.102 35.023 27.606 1.00 57.98  
 33.658 34.305 28.491 1.00 59.43  
 33.400 35.413 26.553 1.00 55.08  
 32.006 35.050 26.354 1.00 52.26  
 31.160 35.668 27.449 1.00 55.14  
 29.706 35.703 27.075 1.00 61.40  
 28.951 36.735 27.844 1.00 65.75  
 27.772 36.543 28.150 1.00 69.74  
 29.614 37.852 28.166 1.00 68.83  
 31.508 35.573 25.001 1.00 47.29  
 31.637 36.764 24.713 1.00 52.89

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FIG. 7(6)

ATOM	260	N	VAL	848	30
ATOM	262	CA	VAL	848	30
ATOM	263	CB	VAL	848	30
ATOM	264	CG1	VAL	848	30
ATOM	265	CG2	VAL	848	32
ATOM	266	C	VAL	848	2
ATOM	267	O	VAL	848	2
ATOM	268	N	ILE	849	2
ATOM	270	CA	ILE	849	2
ATOM	271	CB	ILE	849	2
ATOM	272	CG2	ILE	849	2
ATOM	273	CG1	ILE	849	2
ATOM	274	CD1	ILE	849	2
ATOM	275	C	ILE	849	2
ATOM	276	O	ILE	849	2
ATOM	277	N	GLU	850	2
ATOM	279	CA	GLU	850	2
ATOM	280	CB	GLU	850	2
ATOM	281	CG	GLU	850	2
ATOM	282	CD	GLU	850	2
ATOM	283	OE1	GLU	850	2
ATOM	284	OE2	GLU	850	2
ATOM	285	C	GLU	850	2
ATOM	286	O	GLU	850	2
ATOM	287	N	ALA	851	2
ATOM	289	CA	ALA	851	2
ATOM	290	CB	ALA	851	2
ATOM	291	C	ALA	851	2
ATOM	292	O	ALA	851	2
ATOM	293	N	ASP	852	2
ATOM	295	CA	ASP	852	2
ATOM	296	CB	ASP	852	2
ATOM	297	CG	ASP	852	2
ATOM	298	OD1	ASP	852	2
ATOM	299	OD2	ASP	852	2
ATOM	300	C	ASP	852	2
ATOM	301	O	ASP	852	2
ATOM	302	N	ALA	853	2
ATOM	304	CA	ALA	853	2
ATOM	305	CB	ALA	853	2
ATOM	306	C	ALA	853	2
ATOM	307	O	ALA	853	2
ATOM	308	N	PHE	854	2

30.912	34.707	24.195	1.00	38.17
30.418	35.122	22.898	1.00	30.28
30.792	34.137	21.833	1.00	28.01
30.542	34.744	20.442	1.00	23.32
32.239	33.759	22.016	1.00	22.18
28.920	35.262	22.939	1.00	31.80
28.221	34.525	23.625	1.00	32.87
28.410	36.196	22.166	1.00	29.87
26.990	36.436	22.159	1.00	25.35
26.602	37.448	23.328	1.00	31.46
27.766	38.373	23.732	1.00	32.09
25.353	38.244	23.003	1.00	31.00
24.895	39.035	24.199	1.00	37.56
26.493	36.851	20.798	1.00	23.02
27.167	37.540	20.070	1.00	27.56
25.376	36.294	20.390	1.00	25.56
24.802	36.626	19.107	1.00	26.63
23.577	35.785	18.894	1.00	27.45
23.414	35.361	17.487	1.00	34.57
22.155	34.590	17.293	1.00	34.46
21.602	34.655	16.184	1.00	42.38
21.710	33.924	18.248	1.00	40.93
24.422	38.111	19.028	1.00	27.83
24.240	38.755	20.047	1.00	25.02
24.291	38.640	17.814	1.00	29.11
23.958	40.043	17.621	1.00	27.32
25.080	40.922	18.170	1.00	18.65
23.731	40.387	16.160	1.00	26.61
24.328	39.785	15.283	1.00	26.99
22.836	41.343	15.917	1.00	30.82
22.538	41.862	14.566	1.00	31.76
21.050	42.186	14.386	1.00	39.33
20.222	40.993	13.993	1.00	47.41
19.687	40.330	14.906	1.00	54.12
20.066	40.754	12.775	1.00	53.02
23.265	43.204	14.506	1.00	25.97
23.096	44.021	15.416	1.00	21.64
24.099	43.411	13.495	1.00	20.18
24.818	44.672	13.342	1.00	23.55
26.305	44.440	13.292	1.00	23.32
24.311	45.222	12.026	1.00	23.89
24.079	44.439	11.108	1.00	26.15
24.044	46.526	11.936	1.00	22.87

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FIG. 7(7)

ATOM 310 CA PHE 854  
 ATOM 311 CB PHE 854  
 ATOM 312 CG PHE 854  
 ATOM 313 CD1 PHE 854  
 ATOM 314 CD2 PHE 854  
 ATOM 315 CE1 PHE 854  
 ATOM 316 CE2 PHE 854  
 ATOM 317 CZ PHE 854  
 ATOM 318 C PHE 854  
 ATOM 319 O PHE 854  
 ATOM 320 N GLY 855  
 ATOM 322 CA GLY 855  
 ATOM 323 C GLY 855  
 ATOM 324 O GLY 855  
 ATOM 325 N ILE 856  
 ATOM 327 CA ILE 856  
 ATOM 328 CB ILE 856  
 ATOM 329 CG2 ILE 856  
 ATOM 330 CG1 ILE 856  
 ATOM 331 CD1 ILE 856  
 ATOM 332 C ILE 856  
 ATOM 333 O ILE 856  
 ATOM 334 N ASP 857  
 ATOM 336 CA ASP 857  
 ATOM 337 CB ASP 857  
 ATOM 338 CG ASP 857  
 ATOM 339 OD1 ASP 857  
 ATOM 340 OD2 ASP 857  
 ATOM 341 C ASP 857  
 ATOM 342 O ASP 857  
 ATOM 343 N LYS 858  
 ATOM 345 CA LYS 858  
 ATOM 346 CB LYS 858  
 ATOM 347 CG LYS 858  
 ATOM 348 CD LYS 858  
 ATOM 349 CE LYS 858  
 ATOM 350 NZ LYS 858  
 ATOM 354 C LYS 858  
 ATOM 355 O LYS 858  
 ATOM 356 N THR 859  
 ATOM 358 CA THR 859  
 ATOM 359 CB THR 859  
 ATOM 360 OG1 THR 859

23.529 47.059 10.680 1.00 16.46  
 22.487 48.135 10.901 1.00 23.71  
 22.020 48.758 9.643 1.00 27.62  
 22.476 50.011 9.266 1.00 28.26  
 21.205 48.052 8.771 1.00 31.56  
 22.136 50.549 8.025 1.00 30.16  
 20.856 48.592 7.512 1.00 34.04  
 21.328 49.838 7.145 1.00 28.32  
 24.618 47.569 9.794 1.00 14.10  
 25.493 48.299 10.209 1.00 17.34  
 24.556 47.163 8.553 1.00 17.45  
 25.559 47.571 7.604 1.00 18.50  
 26.988 47.318 8.020 1.00 22.65  
 27.806 48.193 7.777 1.00 26.82  
 27.332 46.150 8.580 1.00 23.51  
 28.740 45.886 8.983 1.00 24.11  
 28.868 44.692 9.980 1.00 27.72  
 28.535 43.370 9.259 1.00 29.88  
 30.282 44.663 10.608 1.00 23.26  
 30.371 44.079 12.034 1.00 21.70  
 29.704 45.665 7.805 1.00 24.83  
 30.918 45.721 7.950 1.00 28.37  
 29.145 45.460 6.626 1.00 27.69  
 29.926 45.248 5.420 1.00 31.23  
 29.566 43.891 4.838 1.00 34.80  
 28.074 43.658 4.811 1.00 40.03  
 27.328 44.597 4.448 1.00 43.33  
 27.641 42.549 5.200 1.00 46.87  
 29.654 46.323 4.370 1.00 32.81  
 29.721 46.040 3.183 1.00 38.59  
 29.299 47.529 4.813 1.00 34.74  
 28.987 48.690 3.946 1.00 34.64  
 30.061 48.947 2.889 1.00 31.38  
 31.462 48.964 3.418 1.00 34.36  
 31.605 49.890 4.603 1.00 39.41  
 33.005 49.791 5.228 1.00 39.87  
 34.059 50.089 4.218 1.00 39.89  
 27.629 48.709 3.254 1.00 32.27  
 27.249 49.737 2.724 1.00 35.02  
 26.891 47.607 3.258 1.00 32.20  
 25.597 47.610 2.600 1.00 30.11  
 25.355 46.332 1.785 1.00 30.38  
 25.365 45.187 2.641 1.00 32.29

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FIG. 7(8)

ATOM 362 CG2 THR 859  
 ATOM 363 C THR 859  
 ATOM 364 O THR 859  
 ATOM 365 N ALA 860  
 ATOM 367 CA ALA 860  
 ATOM 368 CB ALA 860  
 ATOM 369 C ALA 860  
 ATOM 370 O ALA 860  
 ATOM 371 N THR 861  
 ATOM 373 CA THR 861  
 ATOM 374 CB THR 861  
 ATOM 375 OG1 THR 861  
 ATOM 377 CG2 THR 861  
 ATOM 378 C THR 861  
 ATOM 379 O THR 861  
 ATOM 380 N CYS 862  
 ATOM 382 CA CYS 862  
 ATOM 383 CB CYS 862  
 ATOM 384 SG CYS 862  
 ATOM 385 C CYS 862  
 ATOM 386 O CYS 862  
 ATOM 387 N ARG 863  
 ATOM 389 CA ARG 863  
 ATOM 390 CB ARG 863  
 ATOM 391 CG ARG 863  
 ATOM 392 CD ARG 863  
 ATOM 393 NE ARG 863  
 ATOM 395 CZ ARG 863  
 ATOM 396 NH1 ARG 863  
 ATOM 399 NH2 ARG 863  
 ATOM 402 C ARG 863  
 ATOM 403 O ARG 863  
 ATOM 404 N THR 864  
 ATOM 406 CA THR 864  
 ATOM 407 CB THR 864  
 ATOM 408 OG1 THR 864  
 ATOM 410 CG2 THR 864  
 ATOM 411 C THR 864  
 ATOM 412 O THR 864  
 ATOM 413 N VAL 865  
 ATOM 415 CA VAL 865  
 ATOM 416 CB VAL 865  
 ATOM 417 CG1 VAL 865

26.437 46.179 0.757 1.00 32.22  
 24.450 47.839 3.546 1.00 28.71  
 24.577 47.647 4.750 1.00 30.55  
 23.303 48.201 2.989 1.00 30.07  
 22.123 48.474 3.784 1.00 28.01  
 21.141 49.253 2.928 1.00 23.78  
 21.461 47.222 4.394 1.00 28.00  
 20.251 47.100 4.373 1.00 31.77  
 22.228 46.325 5.008 1.00 29.99  
 21.663 45.078 5.577 1.00 27.77  
 22.186 43.857 4.808 1.00 20.97  
 23.614 43.926 4.687 1.00 27.23  
 21.608 43.794 3.449 1.00 29.39  
 21.986 44.790 7.055 1.00 31.89  
 23.095 45.077 7.532 1.00 34.73  
 21.037 44.183 7.770 1.00 34.09  
 21.250 43.805 9.178 1.00 31.63  
 19.922 43.756 9.943 1.00 27.50  
 19.863 44.908 11.327 1.00 41.79  
 21.876 42.424 9.146 1.00 25.51  
 21.241 41.492 8.700 1.00 30.38  
 23.136 42.307 9.541 1.00 27.68  
 23.839 41.025 9.532 1.00 28.29  
 25.211 41.210 8.882 1.00 36.18  
 25.775 39.945 8.275 1.00 48.71  
 27.282 40.034 7.943 1.00 58.46  
 27.824 38.721 7.550 1.00 65.04  
 29.112 38.452 7.330 1.00 65.66  
 29.482 37.219 6.985 1.00 67.60  
 30.030 39.409 7.421 1.00 66.49  
 24.006 40.409 10.943 1.00 28.34  
 24.337 41.125 11.904 1.00 24.64  
 23.735 39.100 11.078 1.00 23.23  
 23.900 38.426 12.364 1.00 18.91  
 23.062 37.099 12.489 1.00 19.40  
 21.672 37.435 12.547 1.00 24.20  
 23.371 36.351 13.793 1.00 8.83  
 25.385 38.148 12.462 1.00 20.93  
 26.001 37.736 11.468 1.00 20.14  
 25.962 38.442 13.634 1.00 16.03  
 27.381 38.254 13.897 1.00 16.69  
 28.175 39.620 13.906 1.00 17.70  
 28.107 40.299 12.539 1.00 21.22

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FIG. 7(9)

ATOM 418 CG2 VAL 865  
 ATOM 419 C VAL 865  
 ATOM 420 O VAL 865  
 ATOM 421 N ALA 866  
 ATOM 423 CA ALA 866  
 ATOM 424 CB ALA 866  
 ATOM 425 C ALA 866  
 ATOM 426 O ALA 866  
 ATOM 427 N VAL 867  
 ATOM 429 CA VAL 867  
 ATOM 430 CB VAL 867  
 ATOM 431 CG1 VAL 867  
 ATOM 432 CG2 VAL 867  
 ATOM 433 C VAL 867  
 ATOM 434 O VAL 867  
 ATOM 435 N LYS 868  
 ATOM 437 CA LYS 868  
 ATOM 438 CB LYS 868  
 ATOM 439 CG LYS 868  
 ATOM 440 CD LYS 868  
 ATOM 441 CE LYS 868  
 ATOM 442 NZ LYS 868  
 ATOM 446 C LYS 868  
 ATOM 447 O LYS 868  
 ATOM 448 N MET 869  
 ATOM 450 CA MET 869  
 ATOM 451 CB MET 869  
 ATOM 452 CG MET 869  
 ATOM 453 SD MET 869  
 ATOM 454 CE MET 869  
 ATOM 455 C MET 869  
 ATOM 456 O MET 869  
 ATOM 457 N LEU 870  
 ATOM 459 CA LEU 870  
 ATOM 460 CB LEU 870  
 ATOM 461 CG LEU 870  
 ATOM 462 CD1 LEU 870  
 ATOM 463 CD2 LEU 870  
 ATOM 464 C LEU 870  
 ATOM 465 O LEU 870  
 ATOM 466 N LYS 871  
 ATOM 468 CA LYS 871  
 ATOM 469 CB LYS 871

27.625 40.554 14.979 1.00 20.92  
 27.533 37.660 15.276 1.00 15.90  
 26.552 37.554 15.995 1.00 16.43  
 28.775 37.295 15.612 1.00 16.37  
 29.210 36.753 16.910 1.00 18.08  
 30.022 35.490 16.691 1.00 7.41  
 30.117 37.834 17.588 1.00 23.87  
 31.121 38.261 16.998 1.00 24.17  
 29.790 38.235 18.827 1.00 26.69  
 30.534 39.268 19.554 1.00 20.37  
 29.592 40.365 20.088 1.00 17.71  
 30.361 41.586 20.519 1.00 9.32  
 28.635 40.753 19.027 1.00 14.57  
 31.320 38.748 20.728 1.00 21.67  
 30.784 38.085 21.606 1.00 23.57  
 32.616 38.982 20.694 1.00 21.65  
 33.471 38.593 21.782 1.00 27.02  
 34.860 38.169 21.289 1.00 29.71  
 34.842 36.963 20.405 1.00 37.08  
 36.151 36.810 19.666 1.00 44.81  
 36.183 35.512 18.868 1.00 45.52  
 37.548 35.298 18.274 1.00 47.28  
 33.585 39.842 22.647 1.00 26.11  
 33.962 40.914 22.188 1.00 24.72  
 33.184 39.721 23.888 1.00 29.77  
 33.299 40.821 24.803 1.00 32.95  
 31.958 41.491 24.996 1.00 30.57  
 30.900 40.542 25.463 1.00 32.29  
 29.348 41.157 24.961 1.00 42.68  
 29.251 42.663 25.919 1.00 35.32  
 33.778 40.205 26.095 1.00 40.29  
 33.921 38.967 26.216 1.00 35.26  
 34.079 41.066 27.051 1.00 46.88  
 34.521 40.576 28.337 1.00 51.36  
 35.544 41.549 28.937 1.00 48.55  
 36.862 41.677 28.180 1.00 44.32  
 37.734 42.739 28.855 1.00 36.89  
 37.535 40.306 28.149 1.00 41.04  
 33.344 40.306 29.311 1.00 53.63  
 32.163 40.615 29.037 1.00 52.68  
 33.675 39.644 30.412 1.00 56.89  
 32.695 39.346 31.426 1.00 58.53  
 33.083 38.077 32.169 1.00 59.89

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FIG. 7(10)

ATOM 470 CG LYS 871  
 ATOM 471 CD LYS 871  
 ATOM 472 CE LYS 871  
 ATOM 473 NZ LYS 871  
 ATOM 477 C LYS 871  
 ATOM 478 O LYS 871  
 ATOM 479 N GLU 872  
 ATOM 481 CA GLU 872  
 ATOM 482 CB GLU 872  
 ATOM 483 CG GLU 872  
 ATOM 484 CD GLU 872  
 ATOM 485 OE1 GLU 872  
 ATOM 486 OE2 GLU 872  
 ATOM 487 C GLU 872  
 ATOM 488 O GLU 872  
 ATOM 489 N GLY 873  
 ATOM 491 CA GLY 873  
 ATOM 492 C GLY 873  
 ATOM 493 O GLY 873  
 ATOM 494 N ALA 874  
 ATOM 496 CA ALA 874  
 ATOM 497 CB ALA 874  
 ATOM 498 C ALA 874  
 ATOM 499 O ALA 874  
 ATOM 500 N THR 875  
 ATOM 502 CA THR 875  
 ATOM 503 CB THR 875  
 ATOM 504 OG1 THR 875  
 ATOM 506 CG2 THR 875  
 ATOM 507 C THR 875  
 ATOM 508 O THR 875  
 ATOM 509 N HIS 876  
 ATOM 511 CA HIS 876  
 ATOM 512 CB HIS 876  
 ATOM 513 CG HIS 876  
 ATOM 514 CD2 HIS 876  
 ATOM 515 ND1 HIS 876  
 ATOM 517 CE1 HIS 876  
 ATOM 518 NE2 HIS 876  
 ATOM 520 C HIS 876  
 ATOM 521 O HIS 876  
 ATOM 522 N SER 877  
 ATOM 524 CA SER 877

31.903 37.220 32.546 1.00 63.81  
 31.912 35.965 31.719 1.00 65.43  
 33.268 35.318 31.853 1.00 70.59  
 33.318 34.051 31.135 1.00 76.57  
 32.649 40.518 32.404 1.00 59.44  
 33.582 41.342 32.464 1.00 56.75  
 31.566 40.571 33.177 1.00 61.50  
 31.357 41.618 34.177 1.00 64.12  
 29.928 41.539 34.739 1.00 66.85  
 28.846 41.903 33.729 1.00 71.27  
 29.060 41.218 32.387 1.00 74.41  
 28.900 39.980 32.326 1.00 76.27  
 29.443 41.903 31.411 1.00 74.20  
 32.387 41.424 35.288 1.00 60.87  
 32.331 40.441 36.026 1.00 61.34  
 33.368 42.319 35.335 1.00 57.40  
 34.408 42.223 36.337 1.00 53.93  
 35.703 41.641 35.803 1.00 52.30  
 36.518 41.103 36.563 1.00 51.95  
 35.881 41.721 34.491 1.00 51.13  
 37.090 41.217 33.862 1.00 51.21  
 36.875 41.049 32.335 1.00 48.57  
 38.270 42.172 34.199 1.00 50.40  
 38.101 43.388 34.369 1.00 48.57  
 39.465 41.609 34.245 1.00 48.33  
 40.657 42.334 34.617 1.00 51.59  
 41.572 41.428 35.447 1.00 54.42  
 42.677 42.184 35.937 1.00 60.69  
 42.107 40.280 34.593 1.00 60.52  
 41.455 42.830 33.448 1.00 51.15  
 41.395 42.263 32.372 1.00 52.26  
 42.343 43.770 33.733 1.00 53.93  
 43.215 44.392 32.737 1.00 55.68  
 44.170 45.383 33.419 1.00 54.06  
 45.609 44.980 33.361 1.00 56.52  
 46.595 45.314 32.487 1.00 56.83  
 46.191 44.149 34.297 1.00 60.22  
 47.472 43.992 34.009 1.00 62.12  
 47.739 44.689 32.916 1.00 59.66  
 44.003 43.385 31.898 1.00 54.72  
 44.510 43.712 30.810 1.00 54.08  
 44.167 42.189 32.434 1.00 52.07  
 44.872 41.160 31.704 1.00 53.73

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FIG. 7(11)

ATOM 525 CB SER 877  
 ATOM 526 OG SER 877  
 ATOM 528 C SER 877  
 ATOM 529 O SER 877  
 ATOM 530 N GLU 878  
 ATOM 532 CA GLU 878  
 ATOM 533 CB GLU 878  
 ATOM 534 CG GLU 878  
 ATOM 535 CD GLU 878  
 ATOM 536 OE1 GLU 878  
 ATOM 537 OE2 GLU 878  
 ATOM 538 C GLU 878  
 ATOM 539 O GLU 878  
 ATOM 540 N HIS 879  
 ATOM 542 CA HIS 879  
 ATOM 543 CB HIS 879  
 ATOM 544 CG HIS 879  
 ATOM 545 CD2 HIS 879  
 ATOM 546 ND1 HIS 879  
 ATOM 548 CE1 HIS 879  
 ATOM 549 NE2 HIS 879  
 ATOM 551 C HIS 879  
 ATOM 552 O HIS 879  
 ATOM 553 N ARG 880  
 ATOM 555 CA ARG 880  
 ATOM 556 CB ARG 880  
 ATOM 557 CG ARG 880  
 ATOM 558 CD ARG 880  
 ATOM 559 NE ARG 880  
 ATOM 561 CZ ARG 880  
 ATOM 562 NH1 ARG 880  
 ATOM 565 NH2 ARG 880  
 ATOM 568 C ARG 880  
 ATOM 569 O ARG 880  
 ATOM 570 N ALA 881  
 ATOM 572 CA ALA 881  
 ATOM 573 CB ALA 881  
 ATOM 574 C ALA 881  
 ATOM 575 O ALA 881  
 ATOM 576 N LEU 882  
 ATOM 578 CA LEU 882  
 ATOM 579 CB LEU 882  
 ATOM 580 CG LEU 882

45.622 40.256 32.669 1.00 57.58  
 46.559 41.054 33.379 1.00 63.62  
 43.880 40.410 30.810 1.00 51.29  
 44.227 39.962 29.715 1.00 50.11  
 42.629 40.320 31.246 1.00 47.72  
 41.620 39.696 30.410 1.00 45.39  
 40.335 39.483 31.201 1.00 48.19  
 40.383 38.191 32.013 1.00 60.86  
 39.304 38.086 33.092 1.00 68.27  
 38.448 37.162 33.027 1.00 70.85  
 39.336 38.911 34.029 1.00 67.92  
 41.448 40.702 29.277 1.00 40.09  
 41.536 40.365 28.104 1.00 38.92  
 41.393 41.966 29.659 1.00 34.60  
 41.252 43.072 28.732 1.00 36.68  
 41.070 44.392 29.505 1.00 44.03  
 40.637 45.547 28.652 1.00 43.54  
 39.403 46.025 28.364 1.00 40.08  
 41.529 46.307 27.917 1.00 39.08  
 40.860 47.192 27.202 1.00 40.82  
 39.572 47.045 27.452 1.00 49.01  
 42.455 43.172 27.797 1.00 34.17  
 42.293 43.494 26.626 1.00 33.65  
 43.664 42.993 28.319 1.00 33.25  
 44.838 43.033 27.470 1.00 29.84  
 46.124 42.932 28.299 1.00 36.53  
 46.615 41.470 28.452 1.00 50.57  
 48.121 41.276 28.649 1.00 56.95  
 48.555 41.748 29.960 1.00 63.99  
 49.030 42.967 30.175 1.00 66.67  
 49.391 43.327 31.397 1.00 66.45  
 49.170 43.813 29.157 1.00 66.52  
 44.741 41.799 26.533 1.00 29.72  
 45.246 41.808 25.401 1.00 21.81  
 44.070 40.747 27.006 1.00 28.49  
 43.942 39.514 26.227 1.00 31.72  
 43.587 38.342 27.142 1.00 31.57  
 42.978 39.592 25.044 1.00 29.98  
 43.319 39.154 23.944 1.00 31.95  
 41.766 40.099 25.273 1.00 27.12  
 40.804 40.248 24.193 1.00 27.43  
 39.493 40.784 24.728 1.00 23.93  
 38.402 40.925 23.662 1.00 25.91

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FIG. 7(12)

ATOM 581 CD1 LEU 882  
 ATOM 582 CD2 LEU 882  
 ATOM 583 C LEU 882  
 ATOM 584 O LEU 882  
 ATOM 585 N MET 883  
 ATOM 587 CA MET 883  
 ATOM 588 CB MET 883  
 ATOM 589 CG MET 883  
 ATOM 590 SD MET 883  
 ATOM 591 CE MET 883  
 ATOM 592 C MET 883  
 ATOM 593 O MET 883  
 ATOM 594 N SER 884  
 ATOM 596 CA SER 884  
 ATOM 597 CB SER 884  
 ATOM 598 OG SER 884  
 ATOM 600 C SER 884  
 ATOM 601 O SER 884  
 ATOM 602 N GLU 885  
 ATOM 604 CA GLU 885  
 ATOM 605 CB GLU 885  
 ATOM 606 CG GLU 885  
 ATOM 607 CD GLU 885  
 ATOM 608 OE1 GLU 885  
 ATOM 609 OE2 GLU 885  
 ATOM 610 C GLU 885  
 ATOM 611 O GLU 885  
 ATOM 612 N LEU 886  
 ATOM 614 CA LEU 886  
 ATOM 615 CB LEU 886  
 ATOM 616 CG LEU 886  
 ATOM 617 CD1 LEU 886  
 ATOM 618 CD2 LEU 886  
 ATOM 619 C LEU 886  
 ATOM 620 O LEU 886  
 ATOM 621 N LYS 887  
 ATOM 623 CA LYS 887  
 ATOM 624 CB LYS 887  
 ATOM 625 CG LYS 887  
 ATOM 626 CD LYS 887  
 ATOM 627 CE LYS 887  
 ATOM 628 NZ LYS 887  
 ATOM 632 C LYS 887

38.435 39.722 22.743 1.00 21.91  
 37.013 41.102 24.325 1.00 23.61  
 41.368 41.230 23.151 1.00 30.62  
 41.312 40.982 21.945 1.00 27.61  
 41.940 42.325 23.643 1.00 29.74  
 42.548 43.364 22.808 1.00 30.75  
 43.001 44.516 23.738 1.00 27.47  
 43.432 45.828 23.084 1.00 33.64  
 42.313 46.592 21.882 1.00 33.18  
 41.031 47.285 22.943 1.00 33.54  
 43.711 42.756 21.965 1.00 29.92  
 43.862 43.022 20.766 1.00 28.38  
 44.501 41.893 22.588 1.00 29.75  
 45.597 41.231 21.912 1.00 28.29  
 46.343 40.391 22.923 1.00 32.03  
 47.220 39.502 22.270 1.00 44.59  
 45.091 40.329 20.778 1.00 29.39  
 45.595 40.359 19.654 1.00 28.92  
 44.084 39.526 21.071 1.00 25.33  
 43.559 38.661 20.058 1.00 27.47  
 42.563 37.692 20.661 1.00 31.61  
 41.142 38.108 20.642 1.00 46.01  
 40.215 36.903 20.799 1.00 55.19  
 40.018 36.469 21.964 1.00 58.80  
 39.715 36.379 19.762 1.00 54.01  
 42.945 39.470 18.924 1.00 28.59  
 42.833 38.983 17.805 1.00 26.67  
 42.560 40.712 19.211 1.00 27.06  
 41.994 41.594 18.205 1.00 23.75  
 41.483 42.887 18.847 1.00 22.79  
 41.122 44.033 17.905 1.00 17.60  
 39.981 43.608 16.999 1.00 11.98  
 40.747 45.285 18.702 1.00 18.31  
 43.049 41.936 17.147 1.00 24.77  
 42.767 41.880 15.939 1.00 22.15  
 44.265 42.246 17.602 1.00 25.08  
 45.384 42.613 16.722 1.00 24.94  
 46.517 43.227 17.544 1.00 29.70  
 46.105 44.304 18.560 1.00 30.67  
 45.556 45.551 17.895 1.00 28.99  
 45.170 46.645 18.923 1.00 26.07  
 46.354 47.216 19.621 1.00 17.59  
 45.921 41.407 15.925 1.00 25.59

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## FIG. 7(13)

ATOM 633 O LYS 887  
 ATOM 634 N ILE 888  
 ATOM 636 CA ILE 888  
 ATOM 637 CB ILE 888  
 ATOM 638 CG2 ILE 888  
 ATOM 639 CG1 ILE 888  
 ATOM 640 CD1 ILE 888  
 ATOM 641 C ILE 888  
 ATOM 642 O ILE 888  
 ATOM 643 N LEU 889  
 ATOM 645 CA LEU 889  
 ATOM 646 CB LEU 889  
 ATOM 647 CG LEU 889  
 ATOM 648 CD1 LEU 889  
 ATOM 649 CD2 LEU 889  
 ATOM 650 C LEU 889  
 ATOM 651 O LEU 889  
 ATOM 652 N ILE 890  
 ATOM 654 CA ILE 890  
 ATOM 655 CB ILE 890  
 ATOM 656 CG2 ILE 890  
 ATOM 657 CG1 ILE 890  
 ATOM 658 CD1 ILE 890  
 ATOM 659 C ILE 890  
 ATOM 660 O ILE 890  
 ATOM 661 N HIS 891  
 ATOM 663 CA HIS 891  
 ATOM 664 CB HIS 891  
 ATOM 665 CG HIS 891  
 ATOM 666 CD2 HIS 891  
 ATOM 667 ND1 HIS 891  
 ATOM 669 CE1 HIS 891  
 ATOM 670 NE2 HIS 891  
 ATOM 672 C HIS 891  
 ATOM 673 O HIS 891  
 ATOM 674 N ILE 892  
 ATOM 676 CA ILE 892  
 ATOM 677 CB ILE 892  
 ATOM 678 CG2 ILE 892  
 ATOM 679 CG1 ILE 892  
 ATOM 680 CD1 ILE 892  
 ATOM 681 C ILE 892  
 ATOM 682 O ILE 892

46.388 41.547 14.793 1.00 30.23  
 45.917 40.235 16.542 1.00 20.48  
 46.347 39.028 15.859 1.00 21.46  
 46.306 37.795 16.816 1.00 22.73  
 46.604 36.556 16.047 1.00 24.05  
 47.355 37.929 17.937 1.00 23.32  
 47.092 37.058 19.190 1.00 18.29  
 45.392 38.822 14.663 1.00 19.51  
 45.834 38.710 13.529 1.00 19.15  
 44.088 38.828 14.922 1.00 15.54  
 43.078 38.677 13.872 1.00 20.73  
 41.658 38.818 14.446 1.00 19.41  
 41.204 37.652 15.372 1.00 22.61  
 39.735 37.752 15.697 1.00 13.49  
 41.500 36.263 14.764 1.00 18.87  
 43.308 39.678 12.762 1.00 24.12  
 43.342 39.344 11.584 1.00 28.65  
 43.461 40.931 13.138 1.00 29.62  
 43.753 41.953 12.158 1.00 26.41  
 43.966 43.310 12.865 1.00 24.45  
 44.555 44.333 11.888 1.00 30.36  
 42.645 43.825 13.438 1.00 19.80  
 42.812 45.061 14.241 1.00 14.93  
 45.053 41.519 11.415 1.00 28.37  
 45.126 41.553 10.191 1.00 24.83  
 46.066 41.099 12.164 1.00 27.37  
 47.309 40.659 11.567 1.00 27.76  
 48.277 40.175 12.654 1.00 36.80  
 49.509 39.507 12.100 1.00 47.58  
 50.811 39.869 12.147 1.00 46.38  
 49.450 38.394 11.276 1.00 52.71  
 50.660 38.114 10.825 1.00 50.46  
 51.505 38.993 11.340 1.00 54.62  
 47.098 39.536 10.537 1.00 27.01  
 47.522 39.647 9.402 1.00 32.82  
 46.580 38.403 10.995 1.00 24.99  
 46.300 37.216 10.181 1.00 23.19  
 45.233 36.282 10.907 1.00 24.73  
 44.643 35.295 9.941 1.00 20.03  
 45.828 35.522 12.104 1.00 26.32  
 47.015 36.222 12.787 1.00 36.72  
 45.700 37.625 8.848 1.00 22.57  
 46.115 37.155 7.775 1.00 25.20

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FIG. 7(14)

ATOM 683 N GLY 893  
 ATOM 685 CA GLY 893  
 ATOM 686 C GLY 893  
 ATOM 687 O GLY 893  
 ATOM 688 N HIS 894  
 ATOM 690 CA HIS 894  
 ATOM 691 CB HIS 894  
 ATOM 692 CG HIS 894  
 ATOM 693 CD2 HIS 894  
 ATOM 694 ND1 HIS 894  
 ATOM 696 CE1 HIS 894  
 ATOM 697 NE2 HIS 894  
 ATOM 699 C HIS 894  
 ATOM 700 O HIS 894  
 ATOM 701 N HIS 895  
 ATOM 703 CA HIS 895  
 ATOM 704 CB HIS 895  
 ATOM 705 CG HIS 895  
 ATOM 706 CD2 HIS 895  
 ATOM 707 ND1 HIS 895  
 ATOM 709 CE1 HIS 895  
 ATOM 710 NE2 HIS 895  
 ATOM 712 C HIS 895  
 ATOM 713 O HIS 895  
 ATOM 714 N LEU 896  
 ATOM 716 CA LEU 896  
 ATOM 717 CB LEU 896  
 ATOM 718 CG LEU 896  
 ATOM 719 CD1 LEU 896  
 ATOM 720 CD2 LEU 896  
 ATOM 721 C LEU 896  
 ATOM 722 O LEU 896  
 ATOM 723 N ASN 897  
 ATOM 725 CA ASN 897  
 ATOM 726 CB ASN 897  
 ATOM 727 CG ASN 897  
 ATOM 728 OD1 ASN 897  
 ATOM 729 ND2 ASN 897  
 ATOM 732 C ASN 897  
 ATOM 733 O ASN 897  
 ATOM 734 N VAL 898  
 ATOM 736 CA VAL 898  
 ATOM 737 CB VAL 898

44.699 38.492 8.916 1.00 23.88  
 44.034 38.910 7.702 1.00 25.37  
 42.794 38.080 7.403 1.00 25.54  
 42.303 37.326 8.224 1.00 32.60  
 42.327 38.149 6.176 1.00 26.97  
 41.120 37.457 5.797 1.00 26.35  
 40.233 38.464 5.042 1.00 31.72  
 39.114 37.833 4.274 1.00 35.68  
 37.818 37.609 4.608 1.00 34.18  
 39.271 37.346 2.989 1.00 38.36  
 38.121 36.854 2.568 1.00 36.24  
 37.224 37.004 3.527 1.00 35.86  
 41.253 36.182 4.958 1.00 24.38  
 42.045 36.108 4.007 1.00 24.24  
 40.426 35.202 5.280 1.00 17.00  
 40.379 33.994 4.494 1.00 18.62  
 41.363 32.929 4.931 1.00 15.85  
 41.446 31.814 3.943 1.00 21.47  
 42.076 31.737 2.745 1.00 17.93  
 40.675 30.676 4.042 1.00 21.96  
 40.819 29.956 2.938 1.00 21.22  
 41.663 30.578 2.137 1.00 10.16  
 38.979 33.467 4.626 1.00 15.66  
 38.396 33.656 5.663 1.00 18.76  
 38.419 32.865 3.567 1.00 21.74  
 37.042 32.306 3.584 1.00 18.37  
 36.652 31.762 2.210 1.00 17.64  
 35.297 31.068 2.218 1.00 25.15  
 34.218 32.077 2.454 1.00 24.41  
 35.042 30.342 0.934 1.00 25.59  
 36.867 31.172 4.569 1.00 17.58  
 35.783 30.937 5.068 1.00 23.11  
 37.952 30.475 4.849 1.00 15.99  
 37.878 29.340 5.725 1.00 18.36  
 38.589 28.134 5.078 1.00 20.86  
 37.928 27.689 3.747 1.00 16.88  
 38.567 27.692 2.694 1.00 14.51  
 36.639 27.346 3.799 1.00 12.11  
 38.293 29.541 7.188 1.00 25.65  
 38.648 28.556 7.858 1.00 22.22  
 38.357 30.800 7.660 1.00 23.53  
 38.631 31.079 9.081 1.00 15.38  
 40.036 31.719 9.457 1.00 11.47

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FIG. 7(15)

ATOM	738	CG1	VAL	898
ATOM	739	CG2	VAL	898
ATOM	740	C	VAL	898
ATOM	741	O	VAL	898
ATOM	742	N	VAL	899
ATOM	744	CA	VAL	899
ATOM	745	CB	VAL	899
ATOM	746	CG1	VAL	899
ATOM	747	CG2	VAL	899
ATOM	748	C	VAL	899
ATOM	749	O	VAL	899
ATOM	750	N	ASN	900
ATOM	752	CA	ASN	900
ATOM	753	CB	ASN	900
ATOM	754	CG	ASN	900
ATOM	755	OD1	ASN	900
ATOM	756	ND2	ASN	900
ATOM	759	C	ASN	900
ATOM	760	O	ASN	900
ATOM	761	N	LEU	901
ATOM	763	CA	LEU	901
ATOM	764	CB	LEU	901
ATOM	765	CG	LEU	901
ATOM	766	CD1	LEU	901
ATOM	767	CD2	LEU	901
ATOM	768	C	LEU	901
ATOM	769	O	LEU	901
ATOM	770	N	LEU	902
ATOM	772	CA	LEU	902
ATOM	773	CB	LEU	902
ATOM	774	CG	LEU	902
ATOM	775	CD1	LEU	902
ATOM	776	CD2	LEU	902
ATOM	777	C	LEU	902
ATOM	778	O	LEU	902
ATOM	779	N	GLY	903
ATOM	781	CA	GLY	903
ATOM	782	C	GLY	903
ATOM	783	O	GLY	903
ATOM	784	N	ALA	904
ATOM	786	CA	ALA	904
ATOM	787	CB	ALA	904
ATOM	788	C	ALA	904

41.146	30.813	9.017	1.00	14.76
40.236	33.119	8.883	1.00	8.71
37.475	31.959	9.477	1.00	15.57
36.698	32.382	8.620	1.00	17.87
37.226	32.049	10.773	1.00	18.55
36.155	32.882	11.264	1.00	20.68
35.757	32.487	12.720	1.00	19.98
34.618	33.384	13.202	1.00	18.29
35.346	31.016	12.788	1.00	12.67
36.807	34.272	11.244	1.00	21.95
37.725	34.517	12.003	1.00	21.42
36.352	35.164	10.363	1.00	23.43
36.930	36.526	10.226	1.00	23.52
36.737	37.061	8.803	1.00	19.45
37.350	36.177	7.782	1.00	19.58
38.578	36.087	7.667	1.00	17.65
36.511	35.528	7.004	1.00	20.34
36.484	37.641	11.152	1.00	17.00
35.343	37.704	11.598	1.00	16.94
37.413	38.544	11.384	1.00	17.25
37.167	39.733	12.160	1.00	17.98
38.494	40.447	12.426	1.00	16.80
38.444	41.819	13.101	1.00	14.17
38.018	41.673	14.560	1.00	11.71
39.782	42.435	13.008	1.00	2.76
36.354	40.578	11.174	1.00	20.28
36.669	40.612	9.965	1.00	18.06
35.280	41.180	11.686	1.00	19.74
34.398	42.031	10.917	1.00	15.84
32.950	41.593	11.087	1.00	11.70
32.615	40.230	10.473	1.00	13.49
31.142	39.827	10.774	1.00	13.78
32.856	40.270	8.981	1.00	12.15
34.566	43.486	11.345	1.00	19.59
34.466	44.380	10.510	1.00	23.95
34.854	43.724	12.625	1.00	20.15
35.037	45.090	13.114	1.00	21.60
35.147	45.075	14.620	1.00	24.02
35.070	43.991	15.194	1.00	26.53
35.305	46.236	15.269	1.00	25.19
35.411	46.293	16.740	1.00	18.80
36.830	46.074	17.177	1.00	12.62
34.886	47.559	17.386	1.00	20.83

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## FIG. 7(16)

ATOM 789 O ALA 904  
 ATOM 790 N CYS 905  
 ATOM 792 CA CYS 905  
 ATOM 793 CB CYS 905  
 ATOM 794 SG CYS 905  
 ATOM 795 C CYS 905  
 ATOM 796 O CYS 905  
 ATOM 797 N THR 906  
 ATOM 799 CA THR 906  
 ATOM 800 CB THR 906  
 ATOM 801 OG1 THR 906  
 ATOM 803 CG2 THR 906  
 ATOM 804 C THR 906  
 ATOM 805 O THR 906  
 ATOM 806 N LYS 907  
 ATOM 808 CA LYS 907  
 ATOM 809 CB LYS 907  
 ATOM 810 CG LYS 907  
 ATOM 811 CD LYS 907  
 ATOM 812 CE LYS 907  
 ATOM 813 NZ LYS 907  
 ATOM 817 C LYS 907  
 ATOM 818 O LYS 907  
 ATOM 819 N PRO 908  
 ATOM 820 CD PRO 908  
 ATOM 821 CA PRO 908  
 ATOM 822 CB PRO 908  
 ATOM 823 CG PRO 908  
 ATOM 824 C PRO 908  
 ATOM 825 O PRO 908  
 ATOM 826 N GLY 909  
 ATOM 828 CA GLY 909  
 ATOM 829 C GLY 909  
 ATOM 830 O GLY 909  
 ATOM 831 N GLY 910  
 ATOM 833 CA GLY 910  
 ATOM 834 C GLY 910  
 ATOM 835 O GLY 910  
 ATOM 836 N PRO 911  
 ATOM 837 CD PRO 911  
 ATOM 838 CA PRO 911  
 ATOM 839 CB PRO 911  
 ATOM 840 CG PRO 911

34.789 48.616 16.765 1.00 26.12  
 34.617 47.443 18.674 1.00 21.21  
 34.128 48.530 19.493 1.00 19.91  
 32.804 48.160 20.115 1.00 16.08  
 31.561 47.894 18.851 1.00 15.32  
 35.176 48.687 20.556 1.00 23.00  
 35.245 47.890 21.486 1.00 24.21  
 36.042 49.674 20.361 1.00 26.02  
 37.140 49.945 21.283 1.00 29.46  
 38.514 49.768 20.574 1.00 26.67  
 38.635 50.739 19.526 1.00 29.06  
 38.648 48.363 20.001 1.00 23.13  
 37.130 51.346 21.928 1.00 30.07  
 37.642 51.522 23.036 1.00 29.29  
 36.582 52.332 21.228 1.00 32.81  
 36.554 53.686 21.745 1.00 39.38  
 35.982 54.637 20.701 1.00 41.03  
 34.536 54.432 20.386 1.00 48.86  
 34.071 55.528 19.427 1.00 57.25  
 33.996 56.878 20.143 1.00 63.62  
 33.688 58.001 19.213 1.00 68.81  
 35.796 53.779 23.070 1.00 44.43  
 35.094 52.867 23.442 1.00 44.52  
 36.034 54.838 23.857 1.00 49.18  
 37.147 55.794 23.712 1.00 50.93  
 35.358 55.022 25.149 1.00 46.86  
 35.963 56.324 25.647 1.00 49.68  
 37.387 56.216 25.143 1.00 51.43  
 33.852 55.145 25.036 1.00 44.06  
 33.345 55.600 24.008 1.00 44.40  
 33.154 54.772 26.110 1.00 41.44  
 31.698 54.842 26.135 1.00 37.38  
 30.999 53.502 26.035 1.00 38.26  
 29.778 53.439 25.751 1.00 40.07  
 31.753 52.424 26.264 1.00 36.39  
 31.178 51.087 26.190 1.00 34.35  
 32.180 49.961 26.360 1.00 31.85  
 33.394 50.235 26.528 1.00 27.95  
 31.710 48.686 26.319 1.00 27.95  
 30.280 48.339 26.197 1.00 28.51  
 32.511 47.463 26.467 1.00 25.21  
 31.438 46.393 26.724 1.00 27.44  
 30.315 46.840 25.891 1.00 22.45

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FIG. 7(11)

ATOM 841 C PRO 911  
 ATOM 842 O PRO 911  
 ATOM 843 N LEU 912  
 ATOM 845 CA LEU 912  
 ATOM 846 CB LEU 912  
 ATOM 847 CG LEU 912  
 ATOM 848 CD1 LEU 912  
 ATOM 849 CD2 LEU 912  
 ATOM 850 C LEU 912  
 ATOM 851 O LEU 912  
 ATOM 852 N MET 913  
 ATOM 854 CA MET 913  
 ATOM 855 CB MET 913  
 ATOM 856 CG MET 913  
 ATOM 857 SD MET 913  
 ATOM 858 CE MET 913  
 ATOM 859 C MET 913  
 ATOM 860 O MET 913  
 ATOM 861 N VAL 914  
 ATOM 863 CA VAL 914  
 ATOM 864 CB VAL 914  
 ATOM 865 CG1 VAL 914  
 ATOM 866 CG2 VAL 914  
 ATOM 867 C VAL 914  
 ATOM 868 O VAL 914  
 ATOM 869 N ILE 915  
 ATOM 871 CA ILE 915  
 ATOM 872 CB ILE 915  
 ATOM 873 CG2 ILE 915  
 ATOM 874 CG1 ILE 915  
 ATOM 875 CD1 ILE 915  
 ATOM 876 C ILE 915  
 ATOM 877 O ILE 915  
 ATOM 878 N VAL 916  
 ATOM 880 CA VAL 916  
 ATOM 881 CB VAL 916  
 ATOM 882 CG1 VAL 916  
 ATOM 883 CG2 VAL 916  
 ATOM 884 C VAL 916  
 ATOM 885 O VAL 916  
 ATOM 886 N GLU 917  
 ATOM 888 CA GLU 917  
 ATOM 889 CB GLU 917

33.340 47.118 25.234 1.00 22.33  
 32.903 47.366 24.124 1.00 23.57  
 34.548 46.581 25.430 1.00 22.75  
 35.412 46.177 24.308 1.00 23.22  
 36.778 45.685 24.812 1.00 23.67  
 38.095 45.759 24.005 1.00 24.34  
 38.988 44.618 24.490 1.00 20.11  
 37.906 45.745 22.477 1.00 12.72  
 34.692 45.010 23.627 1.00 22.56  
 34.342 44.029 24.283 1.00 17.69  
 34.417 45.142 22.334 1.00 24.19  
 33.724 44.085 21.617 1.00 21.51  
 32.264 44.456 21.429 1.00 22.09  
 31.489 44.461 22.728 1.00 22.26  
 29.829 45.009 22.484 1.00 24.17  
 30.127 46.676 22.205 1.00 20.40  
 34.386 43.768 20.295 1.00 20.42  
 34.701 44.657 19.519 1.00 21.08  
 34.703 42.491 20.102 1.00 23.72  
 35.354 42.001 18.891 1.00 20.24  
 36.614 41.170 19.232 1.00 16.92  
 37.254 40.637 17.958 1.00 19.36  
 37.629 42.055 19.972 1.00 13.30  
 34.296 41.210 18.132 1.00 19.70  
 33.836 40.191 18.587 1.00 26.45  
 33.844 41.775 17.026 1.00 19.86  
 32.806 41.212 16.179 1.00 20.42  
 32.034 42.384 15.455 1.00 18.44  
 30.721 41.909 14.869 1.00 12.35  
 31.756 43.531 16.426 1.00 17.60  
 31.358 44.822 15.735 1.00 15.14  
 33.457 40.287 15.115 1.00 23.98  
 34.361 40.722 14.373 1.00 23.30  
 33.054 39.011 15.075 1.00 20.08  
 33.594 38.089 14.077 1.00 17.64  
 34.543 37.003 14.680 1.00 9.09  
 35.703 37.685 15.350 1.00 5.05  
 33.817 36.126 15.678 1.00 10.26  
 32.422 37.486 13.342 1.00 17.74  
 31.275 37.790 13.664 1.00 20.02  
 32.684 36.702 12.303 1.00 14.74  
 31.589 36.073 11.577 1.00 13.03  
 32.120 35.409 10.332 1.00 14.06

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FIG. 7(18)

ATOM 890 CG GLU 917  
 ATOM 891 CD GLU 917  
 ATOM 892 OE1 GLU 917  
 ATOM 893 OE2 GLU 917  
 ATOM 894 C GLU 917  
 ATOM 895 O GLU 917  
 ATOM 896 N PHE 918  
 ATOM 898 CA PHE 918  
 ATOM 899 CB PHE 918  
 ATOM 900 CG PHE 918  
 ATOM 901 CD1 PHE 918  
 ATOM 902 CD2 PHE 918  
 ATOM 903 CE1 PHE 918  
 ATOM 904 CE2 PHE 918  
 ATOM 905 CZ PHE 918  
 ATOM 906 C PHE 918  
 ATOM 907 O PHE 918  
 ATOM 908 N CYS 919  
 ATOM 910 CA CYS 919  
 ATOM 911 CB CYS 919  
 ATOM 912 SG CYS 919  
 ATOM 913 C CYS 919  
 ATOM 914 O CYS 919  
 ATOM 915 N LYS 920  
 ATOM 917 CA LYS 920  
 ATOM 918 CB LYS 920  
 ATOM 919 CG LYS 920  
 ATOM 920 CD LYS 920  
 ATOM 921 CE LYS 920  
 ATOM 922 NZ LYS 920  
 ATOM 926 C LYS 920  
 ATOM 927 O LYS 920  
 ATOM 928 N PHE 921  
 ATOM 930 CA PHE 921  
 ATOM 931 CB PHE 921  
 ATOM 932 CG PHE 921  
 ATOM 933 CD1 PHE 921  
 ATOM 934 CD2 PHE 921  
 ATOM 935 CE1 PHE 921  
 ATOM 936 CE2 PHE 921  
 ATOM 937 CZ PHE 921  
 ATOM 938 C PHE 921  
 ATOM 939 O PHE 921

32.946 36.348 9.464 1.00 24.11  
 33.543 35.651 8.258 1.00 26.52  
 33.060 35.904 7.139 1.00 27.67  
 34.480 34.841 8.425 1.00 28.39  
 30.853 35.051 12.434 1.00 14.78  
 31.445 34.344 13.234 1.00 14.35  
 29.557 34.958 12.229 1.00 19.12  
 28.688 34.042 12.966 1.00 18.07  
 27.334 34.721 13.168 1.00 18.48  
 26.275 33.840 13.748 1.00 17.83  
 26.328 33.456 15.081 1.00 18.65  
 25.213 33.400 12.953 1.00 21.10  
 25.336 32.639 15.613 1.00 18.12  
 24.210 32.580 13.473 1.00 14.29  
 24.274 32.201 14.799 1.00 17.78  
 28.487 32.805 12.113 1.00 18.83  
 28.081 32.917 10.964 1.00 11.61  
 28.761 31.635 12.676 1.00 19.49  
 28.590 30.372 11.947 1.00 19.00  
 29.855 29.566 12.069 1.00 16.78  
 31.225 30.428 11.325 1.00 16.84  
 27.383 29.659 12.556 1.00 21.18  
 27.474 29.135 13.676 1.00 20.69  
 26.269 29.653 11.818 1.00 18.06  
 24.998 29.130 12.318 1.00 28.13  
 23.799 29.581 11.459 1.00 25.17  
 23.595 28.799 10.207 1.00 33.78  
 22.658 29.509 9.250 1.00 40.32  
 21.261 29.706 9.829 1.00 51.94  
 20.343 30.396 8.845 1.00 56.09  
 24.813 27.679 12.700 1.00 28.53  
 24.020 27.405 13.592 1.00 31.57  
 25.533 26.757 12.078 1.00 24.89  
 25.328 25.362 12.409 1.00 21.12  
 25.497 24.518 11.171 1.00 20.75  
 24.588 24.917 10.084 1.00 22.95  
 23.224 24.734 10.219 1.00 27.55  
 25.077 25.564 8.975 1.00 29.40  
 22.362 25.205 9.269 1.00 35.42  
 24.237 26.041 8.013 1.00 32.24  
 22.869 25.870 8.154 1.00 38.81  
 26.158 24.823 13.535 1.00 21.23  
 26.002 23.664 13.900 1.00 22.74

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## FIG. 7(19)

ATOM 940 N GLY 922	27.047	25.659	14.065	1.00	18.39
ATOM 942 CA GLY 922	27.906	25.257	15.172	1.00	17.62
ATOM 943 C GLY 922	29.115	24.455	14.759	1.00	18.42
ATOM 944 O GLY 922	29.331	24.230	13.581	1.00	20.81
ATOM 945 N ASN 923	29.903	24.011	15.729	1.00	22.93
ATOM 947 CA ASN 923	31.092	23.223	15.430	1.00	24.85
ATOM 948 CB ASN 923	31.867	22.837	16.705	1.00	29.68
ATOM 949 CG ASN 923	31.212	21.710	17.493	1.00	39.14
ATOM 950 OD1 ASN 923	31.252	20.550	17.087	1.00	41.11
ATOM 951 ND2 ASN 923	30.662	22.038	18.660	1.00	35.87
ATOM 954 C ASN 923	30.818	22.019	14.523	1.00	21.09
ATOM 955 O ASN 923	29.685	21.566	14.370	1.00	20.59
ATOM 956 N LEU 924	31.867	21.523	13.896	1.00	21.13
ATOM 958 CA LEU 924	31.740	20.431	12.957	1.00	22.85
ATOM 959 CB LEU 924	33.019	20.377	12.126	1.00	23.67
ATOM 960 CG LEU 924	33.019	19.462	10.920	1.00	17.22
ATOM 961 CD1 LEU 924	31.776	19.699	10.125	1.00	18.21
ATOM 962 CD2 LEU 924	34.268	19.729	10.095	1.00	23.82
ATOM 963 C LEU 924	31.414	19.062	13.558	1.00	22.65
ATOM 964 O LEU 924	30.601	18.326	13.013	1.00	26.13
ATOM 965 N SER 925	31.035	18.742	14.687	1.00	20.06
ATOM 967 CA SER 925	31.853	17.463	15.383	1.00	25.99
ATOM 968 CB SER 925	32.741	17.400	16.623	1.00	27.28
ATOM 969 OG SER 925	32.426	16.272	17.416	1.00	32.86
ATOM 971 C SER 925	30.432	17.217	15.812	1.00	26.73
ATOM 972 O SER 925	29.863	16.148	15.552	1.00	30.93
ATOM 973 N THR 926	29.892	18.190	16.534	1.00	24.48
ATOM 975 CA THR 926	28.535	18.129	16.996	1.00	19.27
ATOM 976 CB THR 926	28.258	19.336	17.901	1.00	16.05
ATOM 977 OG1 THR 926	29.230	19.374	18.951	1.00	18.42
ATOM 979 CG2 THR 926	26.927	19.216	18.550	1.00	13.93
ATOM 980 C THR 926	27.610	18.048	15.758	1.00	20.47
ATOM 981 O THR 926	26.654	17.258	15.711	1.00	25.12
ATOM 982 N TYR 927	27.961	18.760	14.701	1.00	18.97
ATOM 984 CA TYR 927	27.128	18.715	13.515	1.00	20.97
ATOM 985 CB TYR 927	27.597	19.720	12.464	1.00	18.52
ATOM 986 CG TYR 927	26.708	19.683	11.230	1.00	18.69
ATOM 987 CD1 TYR 927	25.391	20.196	11.266	1.00	14.64
ATOM 988 CE1 TYR 927	24.567	20.173	10.125	1.00	13.73
ATOM 989 CD2 TYR 927	27.173	19.138	10.031	1.00	22.28
ATOM 990 CE2 TYR 927	26.347	19.104	8.879	1.00	24.92
ATOM 991 CZ TYR 927	25.058	19.626	8.944	1.00	16.40
ATOM 992 OH TYR 927	24.285	19.600	7.819	1.00	23.87

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FIG. 7(20)

ATOM 994 C TYR 927  
ATOM 995 O TYR 927  
ATOM 996 N LEU 928  
ATOM 998 CA LEU 928  
ATOM 999 CB LEU 928  
ATOM 1000 CG LEU 928  
ATOM 1001 CD1 LEU 928  
ATOM 1002 CD2 LEU 928  
ATOM 1003 C LEU 928  
ATOM 1004 O LEU 928  
ATOM 1005 N ARG 929  
ATOM 1007 CA ARG 929  
ATOM 1008 CB ARG 929  
ATOM 1009 CG ARG 929  
ATOM 1010 CD ARG 929  
ATOM 1011 NE ARG 929  
ATOM 1013 CZ ARG 929  
ATOM 1014 NH1 ARG 929  
ATOM 1017 NH2 ARG 929  
ATOM 1020 C ARG 929  
ATOM 1021 O ARG 929  
ATOM 1022 N SER 930  
ATOM 1024 CA SER 930  
ATOM 1025 CB SER 930  
ATOM 1026 OG SER 930  
ATOM 1028 C SER 930  
ATOM 1029 O SER 930  
ATOM 1030 N LYS 931  
ATOM 1032 CA LYS 931  
ATOM 1033 CB LYS 931  
ATOM 1034 CG LYS 931  
ATOM 1035 CD LYS 931  
ATOM 1036 CE LYS 931  
ATOM 1037 NZ LYS 931  
ATOM 1041 C LYS 931  
ATOM 1042 O LYS 931  
ATOM 1043 N ARG 932  
ATOM 1045 CA ARG 932  
ATOM 1046 CB ARG 932  
ATOM 1047 CG ARG 932  
ATOM 1048 CD ARG 932  
ATOM 1049 NE ARG 932  
ATOM 1051 CZ ARG 932

27.118	17.343	12.855	1.00	23.85
26.078	16.860	12.428	1.00	24.11
28.313	16.793	12.665	1.00	28.91
28.513	15.495	12.020	1.00	31.09
30.017	15.192	11.863	1.00	27.50
30.813	16.159	10.953	1.00	24.21
32.302	15.880	11.065	1.00	24.38
30.343	16.097	9.514	1.00	12.63
27.801	14.369	12.747	1.00	31.00
27.164	13.540	12.117	1.00	31.53
27.883	14.351	14.067	1.00	34.05
27.193	13.316	14.833	1.00	40.50
27.406	13.552	16.325	1.00	41.71
28.358	12.605	16.969	1.00	40.42
29.253	13.359	17.908	1.00	49.36
28.521	13.947	19.020	1.00	62.28
28.946	14.985	19.749	1.00	65.86
28.178	15.432	20.753	1.00	66.98
30.122	15.573	19.492	1.00	58.39
25.678	13.304	14.529	1.00	42.76
25.075	12.234	14.370	1.00	44.84
25.089	14.498	14.412	1.00	41.42
23.663	14.677	14.150	1.00	37.04
23.324	16.151	14.250	1.00	38.80
23.662	16.816	13.041	1.00	37.58
23.226	14.226	12.774	1.00	38.41
22.034	14.254	12.451	1.00	43.98
24.179	13.865	11.936	1.00	37.60
23.845	13.472	10.590	1.00	38.82
24.575	14.387	9.606	1.00	43.10
24.388	15.864	9.884	1.00	45.62
22.999	16.302	9.487	1.00	49.49
22.901	16.444	7.985	1.00	46.94
21.501	16.690	7.568	1.00	49.54
24.136	12.011	10.264	1.00	39.02
23.991	11.615	9.111	1.00	42.79
24.522	11.199	11.247	1.00	37.44
24.793	9.776	10.971	1.00	38.33
25.149	9.020	12.244	1.00	33.55
26.456	9.461	12.798	1.00	33.92
26.812	8.729	14.043	1.00	35.88
28.223	8.929	14.368	1.00	43.26
28.720	8.909	15.604	1.00	45.56

**00000000000000000000000000000000**

## FIG. 7(21)

ATOM 1052 NH1 ARG 932  
 ATOM 1055 NH2 ARG 932  
 ATOM 1058 C ARG 932  
 ATOM 1059 O ARG 932  
 ATOM 1060 N ASN 933  
 ATOM 1062 CA ASN 933  
 ATOM 1063 CB ASN 933  
 ATOM 1064 CG ASN 933  
 ATOM 1065 OD1 ASN 933  
 ATOM 1066 ND2 ASN 933  
 ATOM 1069 C ASN 933  
 ATOM 1070 O ASN 933  
 ATOM 1071 N GLU 934  
 ATOM 1073 CA GLU 934  
 ATOM 1074 CB GLU 934  
 ATOM 1075 CG GLU 934  
 ATOM 1076 CD GLU 934  
 ATOM 1077 OE1 GLU 934  
 ATOM 1078 OE2 GLU 934  
 ATOM 1079 C GLU 934  
 ATOM 1080 O GLU 934  
 ATOM 1081 N PHE 935  
 ATOM 1083 CA PHE 935  
 ATOM 1084 CB PHE 935  
 ATOM 1085 CG PHE 935  
 ATOM 1086 CD1 PHE 935  
 ATOM 1087 CD2 PHE 935  
 ATOM 1088 CE1 PHE 935  
 ATOM 1089 CE2 PHE 935  
 ATOM 1090 CZ PHE 935  
 ATOM 1091 C PHE 935  
 ATOM 1092 O PHE 935  
 ATOM 1093 N VAL 936  
 ATOM 1095 CA VAL 936  
 ATOM 1096 CB VAL 936  
 ATOM 1097 CG1 VAL 936  
 ATOM 1098 CG2 VAL 936  
 ATOM 1099 C VAL 936  
 ATOM 1100 O VAL 936  
 ATOM 1101 N PRO 937  
 ATOM 1102 CD PRO 937  
 ATOM 1103 CA PRO 937  
 ATOM 1104 CB PRO 937

30.018 9.098 15.809 1.00 47.32  
 27.916 8.725 16.645 1.00 53.04  
 23.621 9.087 10.273 1.00 41.54  
 23.821 8.135 9.532 1.00 41.31  
 22.412 9.582 10.536 1.00 44.37  
 21.181 9.069 9.956 1.00 47.14  
 19.974 9.453 10.824 1.00 54.55  
 19.783 8.545 12.050 1.00 57.14  
 20.622 7.693 12.369 1.00 54.11  
 18.668 8.752 12.757 1.00 57.76  
 20.974 9.680 8.589 1.00 49.60  
 20.260 9.125 7.753 1.00 55.62  
 21.494 10.888 8.403 1.00 52.11  
 21.365 11.580 7.122 1.00 52.39  
 20.859 13.007 7.323 1.00 56.14  
 19.434 13.095 7.822 1.00 59.40  
 19.332 13.686 9.211 1.00 63.97  
 18.427 13.250 9.953 1.00 69.17  
 20.138 14.580 9.563 1.00 64.27  
 22.677 11.593 6.332 1.00 50.45  
 23.188 12.663 5.961 1.00 50.70  
 23.205 10.396 6.070 1.00 46.25  
 24.440 10.225 5.325 1.00 41.20  
 25.638 10.121 6.268 1.00 40.97  
 26.923 9.800 5.555 1.00 39.81  
 27.327 8.478 5.378 1.00 34.65  
 27.676 10.815 4.970 1.00 33.02  
 28.455 8.180 4.617 1.00 32.30  
 28.793 10.515 4.218 1.00 29.96  
 29.181 9.201 4.037 1.00 29.08  
 24.474 9.006 4.412 1.00 40.49  
 24.394 7.871 4.865 1.00 40.47  
 24.694 9.237 3.133 1.00 38.66  
 24.809 8.138 2.208 1.00 43.29  
 23.663 8.113 1.221 1.00 40.39  
 23.739 9.312 0.280 1.00 34.50  
 23.720 6.841 0.444 1.00 42.47  
 26.087 8.436 1.438 1.00 49.63  
 26.322 9.585 1.081 1.00 55.64  
 26.960 7.433 1.222 1.00 50.29  
 26.966 6.087 1.822 1.00 49.69  
 28.207 7.669 0.483 1.00 50.65  
 28.676 6.260 0.177 1.00 46.68

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FIG. 7(22)

ATOM 1105 CG PRO 937  
 ATOM 1106 C PRO 937  
 ATOM 1107 O PRO 937  
 ATOM 1108 N TYR 938  
 ATOM 1110 CA TYR 938  
 ATOM 1111 CB TYR 938  
 ATOM 1120 C TYR 938  
 ATOM 1121 O TYR 938  
 ATOM 1122 N LYS 939  
 ATOM 1124 CA LYS 939  
 ATOM 1125 CB LYS 939  
 ATOM 1126 C LYS 939  
 ATOM 1127 O LYS 939  
 ATOM 1129 CB ASP 998  
 ATOM 1130 C ASP 998  
 ATOM 1131 O ASP 998  
 ATOM 1134 N ASP 998  
 ATOM 1136 CA ASP 998  
 ATOM 1137 N PHE 999  
 ATOM 1139 CA PHE 999  
 ATOM 1140 CB PHE 999  
 ATOM 1141 CG PHE 999  
 ATOM 1142 CD1 PHE 999  
 ATOM 1143 CD2 PHE 999  
 ATOM 1144 CE1 PHE 999  
 ATOM 1145 CE2 PHE 999  
 ATOM 1146 CZ PHE 999  
 ATOM 1147 C PHE 999  
 ATOM 1148 O PHE 999  
 ATOM 1149 N LEU 1000  
 ATOM 1151 CA LEU 1000  
 ATOM 1152 CB LEU 1000  
 ATOM 1153 CG LEU 1000  
 ATOM 1154 CD1 LEU 1000  
 ATOM 1155 CD2 LEU 1000  
 ATOM 1156 C LEU 1000  
 ATOM 1157 O LEU 1000  
 ATOM 1158 N THR 1001  
 ATOM 1160 CA THR 1001  
 ATOM 1161 CB THR 1001

28.378 5.582 1.493 1.00 47.42  
 28.019 8.501 -0.774 1.00 53.83  
 28.644 9.558 -0.937 1.00 53.64  
 27.153 8.046 -1.660 1.00 54.91  
 26.918 8.803 -2.859 1.00 62.52  
 27.580 8.161 -4.080 1.00 67.73  
 25.443 8.800 -3.059 1.00 67.31  
 24.722 8.082 -2.361 1.00 66.13  
 25.027 9.601 -4.038 1.00 75.30  
 23.639 9.770 -4.445 1.00 81.21  
 23.209 11.254 -4.284 1.00 80.04  
 23.543 9.331 -5.921 1.00 87.24  
 24.582 9.384 -6.646 1.00 90.23  
 17.986 15.692 3.023 1.00 53.00  
 20.489 15.723 3.377 1.00 55.33  
 21.051 16.058 4.426 1.00 56.29  
 19.408 16.931 1.400 1.00 54.52  
 19.279 16.514 2.829 1.00 55.12  
 20.900 14.687 2.653 1.00 52.90  
 21.984 13.834 3.111 1.00 46.86  
 21.841 12.420 2.528 1.00 51.05  
 20.897 11.537 3.296 1.00 55.62  
 21.249 10.236 3.606 1.00 56.12  
 19.671 12.022 3.751 1.00 60.98  
 20.397 9.422 4.368 1.00 61.93  
 18.816 11.222 4.509 1.00 61.09  
 19.183 9.917 4.820 1.00 60.64  
 23.373 14.302 2.837 1.00 41.06  
 23.632 14.937 1.820 1.00 36.04  
 24.238 14.057 3.812 1.00 37.57  
 25.651 14.326 3.652 1.00 36.08  
 26.401 14.306 4.985 1.00 35.67  
 25.923 15.286 6.057 1.00 36.23  
 26.941 15.370 7.201 1.00 29.94  
 25.707 16.654 5.435 1.00 38.66  
 26.089 13.139 2.756 1.00 35.16  
 25.330 12.167 2.569 1.00 32.68  
 27.292 13.228 2.201 1.00 29.92  
 27.803 12.236 1.285 1.00 25.42  
 27.396 12.560 -0.178 1.00 30.10

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## FIG. 7(23)

ATOM 1162 OG1 THR 1001  
 ATOM 1164 CG2 THR 1001  
 ATOM 1165 C THR 1001  
 ATOM 1166 O THR 1001  
 ATOM 1167 N LEU 1002  
 ATOM 1169 CA LEU 1002  
 ATOM 1170 CB LEU 1002  
 ATOM 1171 CG LEU 1002  
 ATOM 1172 CD1 LEU 1002  
 ATOM 1173 CD2 LEU 1002  
 ATOM 1174 C LEU 1002  
 ATOM 1175 O LEU 1002  
 ATOM 1176 N GLU 1003  
 ATOM 1178 CA GLU 1003  
 ATOM 1179 CB GLU 1003  
 ATOM 1180 CG GLU 1003  
 ATOM 1181 CD GLU 1003  
 ATOM 1182 OE1 GLU 1003  
 ATOM 1183 OE2 GLU 1003  
 ATOM 1184 C GLU 1003  
 ATOM 1185 O GLU 1003  
 ATOM 1186 N HIS 1004  
 ATOM 1188 CA HIS 1004  
 ATOM 1189 CB HIS 1004  
 ATOM 1190 CG HIS 1004  
 ATOM 1191 CD2 HIS 1004  
 ATOM 1192 ND1 HIS 1004  
 ATOM 1194 CE1 HIS 1004  
 ATOM 1195 NE2 HIS 1004  
 ATOM 1197 C HIS 1004  
 ATOM 1198 O HIS 1004  
 ATOM 1199 N LEU 1005  
 ATOM 1201 CA LEU 1005  
 ATOM 1202 CB LEU 1005  
 ATOM 1203 CG LEU 1005  
 ATOM 1204 CD1 LEU 1005  
 ATOM 1205 CD2 LEU 1005  
 ATOM 1206 C LEU 1005  
 ATOM 1207 O LEU 1005  
 ATOM 1208 N ILE 1006

28.055 13.771 -0.605 1.00 33.54  
 25.878 12.741 -0.326 1.00 29.24  
 29.303 12.388 1.338 1.00 27.68  
 29.805 13.303 1.985 1.00 28.02  
 30.020 11.552 0.592 1.00 26.85  
 31.454 11.636 0.572 1.00 24.39  
 32.044 10.545 -0.298 1.00 22.71  
 32.269 9.304 0.573 1.00 27.80  
 32.727 8.142 -0.280 1.00 27.11  
 33.295 9.592 1.670 1.00 24.64  
 31.908 12.995 0.099 1.00 26.97  
 32.967 13.459 0.506 1.00 26.84  
 31.063 13.682 -0.666 1.00 27.89  
 31.428 15.000 -1.185 1.00 28.02  
 30.419 15.503 -2.208 1.00 32.50  
 30.988 16.624 -3.077 1.00 37.49  
 31.915 16.121 -4.170 1.00 38.89  
 33.065 15.743 -3.886 1.00 43.61  
 31.488 16.102 -5.331 1.00 46.97  
 31.591 16.044 -0.117 1.00 25.24  
 32.485 16.885 -0.211 1.00 26.57  
 30.748 15.953 0.913 1.00 23.16  
 30.746 16.884 2.040 1.00 19.58  
 29.508 16.719 2.912 1.00 19.12  
 28.227 17.024 2.208 1.00 23.47  
 27.173 17.784 2.570 1.00 23.78  
 27.911 16.508 0.964 1.00 27.88  
 26.718 16.936 0.596 1.00 20.57  
 26.246 17.710 1.554 1.00 23.61  
 31.940 16.631 2.885 1.00 21.64  
 32.753 17.508 3.075 1.00 25.00  
 32.055 15.419 3.394 1.00 23.11  
 33.186 15.072 4.222 1.00 23.79  
 33.131 13.581 4.589 1.00 24.17  
 32.183 13.199 5.743 1.00 27.48  
 31.030 14.150 5.821 1.00 25.44  
 31.679 11.771 5.627 1.00 22.50  
 34.506 15.467 3.558 1.00 20.41  
 35.361 16.034 4.206 1.00 21.82  
 34.668 15.212 2.264 1.00 19.50

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FIG. 7(24)

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ATOM 1210 CA ILE 1006	35.914	15.589	1.609	1.00	18.77
ATOM 1211 CB ILE 1006	36.128	14.806	0.276	1.00	16.46
ATOM 1212 CG2 ILE 1006	37.602	14.777	-0.103	1.00	12.82
ATOM 1213 CG1 ILE 1006	35.718	13.341	0.441	1.00	20.16
ATOM 1214 CD1 ILE 1006	35.961	12.446	-0.834	1.00	11.88
ATOM 1215 C ILE 1006	35.998	17.136	1.377	1.00	22.88
ATOM 1216 O ILE 1006	37.113	17.730	1.431	1.00	21.25
ATOM 1217 N CYS 1007	34.854	17.788	1.108	1.00	21.47
ATOM 1219 CA CYS 1007	34.860	19.240	0.909	1.00	21.66
ATOM 1220 CB CYS 1007	33.522	19.825	0.431	1.00	24.87
ATOM 1221 SG CYS 1007	33.760	21.544	-0.085	1.00	30.17
ATOM 1222 C CYS 1007	35.247	19.953	2.196	1.00	22.22
ATOM 1223 O CYS 1007	36.024	20.905	2.158	1.00	25.94
ATOM 1224 N TYR 1008	34.691	19.527	3.331	1.00	20.53
ATOM 1226 CA TYR 1008	35.030	20.132	4.617	1.00	17.94
ATOM 1227 CB TYR 1008	34.248	19.493	5.758	1.00	18.61
ATOM 1228 CG TYR 1008	32.753	19.488	5.626	1.00	17.97
ATOM 1229 CD1 TYR 1008	32.019	18.455	6.175	1.00	16.67
ATOM 1230 CE1 TYR 1008	30.641	18.462	6.158	1.00	22.78
ATOM 1231 CD2 TYR 1008	32.059	20.549	5.031	1.00	22.19
ATOM 1232 CE2 TYR 1008	30.646	20.569	5.011	1.00	20.60
ATOM 1233 CZ TYR 1008	29.949	19.513	5.579	1.00	23.22
ATOM 1234 OH TYR 1008	28.574	19.454	5.551	1.00	18.30
ATOM 1236 C TYR 1008	36.537	19.945	4.883	1.00	18.55
ATOM 1237 O TYR 1008	37.217	20.917	5.256	1.00	20.35
ATOM 1238 N SER 1009	37.056	18.726	4.642	1.00	14.74
ATOM 1240 CA SER 1009	38.476	18.409	4.852	1.00	13.39
ATOM 1241 CB SER 1009	38.810	16.962	4.473	1.00	17.24
ATOM 1242 OG SER 1009	38.018	16.001	5.152	1.00	26.04
ATOM 1244 C SER 1009	39.310	19.309	3.985	1.00	16.36
ATOM 1245 O SER 1009	40.317	19.864	4.446	1.00	20.21
ATOM 1246 N PHE 1010	38.953	19.375	2.699	1.00	20.97
ATOM 1248 CA PHE 1010	39.654	20.246	1.742	1.00	23.34
ATOM 1249 CB PHE 1010	38.985	20.126	0.365	1.00	18.83
ATOM 1250 CG PHE 1010	39.605	21.002	-0.685	1.00	17.13
ATOM 1251 CD1 PHE 1010	38.830	21.940	-1.370	1.00	13.94
ATOM 1252 CD2 PHE 1010	40.979	20.918	-0.968	1.00	17.85
ATOM 1253 CE1 PHE 1010	39.410	22.804	-2.339	1.00	16.30
ATOM 1254 CE2 PHE 1010	41.569	21.763	-1.917	1.00	17.15
ATOM 1255 CZ PHE 1010	40.772	22.714	-2.608	1.00	18.02

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**SECRET**

39.688	21.746	2.242	1.00	22.02
40.749	22.390	2.298	1.00	23.00
38.535	22.271	2.643	1.00	19.25
38.418	23.640	3.159	1.00	19.07
36.980	23.945	3.480	1.00	12.84
36.117	24.005	2.270	1.00	6.53
34.713	24.371	2.659	1.00	18.81
34.490	25.382	3.347	1.00	21.22
33.760	23.525	2.302	1.00	26.88
39.262	23.894	4.394	1.00	18.28
39.840	24.982	4.543	1.00	19.80
39.270	22.934	5.319	1.00	11.82
40.110	23.063	6.500	1.00	13.54
39.825	21.936	7.528	1.00	15.67
40.686	22.107	8.795	1.00	10.56
38.370	21.948	7.901	1.00	14.92
41.618	23.068	6.068	1.00	16.72
42.448	23.782	6.665	1.00	20.48
42.001	22.291	5.051	1.00	15.90
43.401	22.352	4.602	1.00	17.77
43.732	21.206	3.638	1.00	10.59
43.685	23.755	3.963	1.00	15.74
44.764	24.302	4.139	1.00	17.49
42.718	24.342	3.244	1.00	17.18
42.866	25.706	2.665	1.00	15.11
41.557	26.152	2.020	1.00	23.73
41.146	25.474	0.748	1.00	23.57
41.963	26.033	-0.354	1.00	26.38
41.172	25.978	-1.617	1.00	38.71
42.034	26.404	-2.776	1.00	50.36
43.105	26.678	3.823	1.00	11.16
44.066	27.452	3.818	1.00	13.85
42.210	26.590	4.816	1.00	10.82
42.250	27.403	6.017	1.00	12.48
43.584	27.327	6.715	1.00	17.17
44.124	28.349	7.130	1.00	19.92
44.159	26.128	6.763	1.00	17.82
45.426	25.927	7.439	1.00	15.78
45.516	24.488	7.925	1.00	17.77
44.538	24.156	9.057	1.00	15.19
44.931	24.991	10.623	1.00	15.49

FIG. 7(26)

ATOM 1308 CE MET 1016	46.642	24.894	10.658	1.00	5.63
ATOM 1309 C MET 1016	46.625	26.321	6.618	1.00	14.62
ATOM 1310 O MET 1016	47.680	26.667	7.163	1.00	15.76
ATOM 1311 N GLU 1017	46.487	26.208	5.305	1.00	14.65
ATOM 1313 CA GLU 1017	47.552	26.608	4.384	1.00	21.43
ATOM 1314 CB GLU 1017	47.177	26.195	2.947	1.00	21.43
ATOM 1315 CG GLU 1017	48.162	26.622	1.878	1.00	22.82
ATOM 1316 CD GLU 1017	47.634	26.421	0.436	1.00	27.12
ATOM 1317 OE1 GLU 1017	46.457	26.769	0.141	1.00	24.95
ATOM 1318 OE2 GLU 1017	48.418	25.927	-0.424	1.00	32.93
ATOM 1319 C GLU 1017	47.667	28.145	4.535	1.00	18.38
ATOM 1320 O GLU 1017	48.760	28.668	4.593	1.00	17.43
ATOM 1321 N PHE 1018	46.526	28.839	4.677	1.00	19.09
ATOM 1323 CA PHE 1018	46.509	30.295	4.894	1.00	20.74
ATOM 1324 CB PHE 1018	45.067	30.848	4.870	1.00	27.18
ATOM 1325 CG PHE 1018	44.942	32.338	5.248	1.00	25.91
ATOM 1326 CD1 PHE 1018	44.477	32.718	6.521	1.00	26.19
ATOM 1327 CD2 PHE 1018	45.300	33.345	4.348	1.00	25.16
ATOM 1328 CE1 PHE 1018	44.381	34.059	6.890	1.00	27.10
ATOM 1329 CE2 PHE 1018	45.208	34.708	4.712	1.00	28.34
ATOM 1330 CZ PHE 1018	44.754	35.064	5.982	1.00	26.60
ATOM 1331 C PHE 1018	47.179	30.663	6.216	1.00	18.20
ATOM 1332 O PHE 1018	48.139	31.430	6.228	1.00	15.08
ATOM 1333 N LEU 1019	46.676	30.122	7.328	1.00	16.94
ATOM 1335 CA LEU 1019	47.259	30.414	8.654	1.00	19.44
ATOM 1336 CB LEU 1019	46.673	29.533	9.754	1.00	22.88
ATOM 1337 CG LEU 1019	45.238	29.773	10.165	1.00	24.41
ATOM 1338 CD1 LEU 1019	44.956	28.916	11.388	1.00	24.01
ATOM 1339 CD2 LEU 1019	45.084	31.277	10.485	1.00	25.61
ATOM 1340 C LEU 1019	48.736	30.173	8.660	1.00	19.44
ATOM 1341 O LEU 1019	49.493	30.896	9.316	1.00	18.98
ATOM 1342 N ALA 1020	49.135	29.076	8.023	1.00	19.45
ATOM 1344 CA ALA 1020	50.545	28.747	7.961	1.00	22.29
ATOM 1345 CB ALA 1020	50.748	27.350	7.397	1.00	21.86
ATOM 1346 C ALA 1020	51.252	29.829	7.115	1.00	26.13
ATOM 1347 O ALA 1020	52.348	30.257	7.471	1.00	25.25
ATOM 1348 N SER 1021	50.600	30.323	6.050	1.00	29.72
ATOM 1350 CA SER 1021	51.194	31.384	5.219	1.00	27.59
ATOM 1351 CB SER 1021	50.289	31.754	4.026	1.00	23.95

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FIG. 7(27)

ATOM 1352 OG SER 1021	49.252	32.662	4.349	1.00	22.60
ATOM 1354 C SER 1021	51.469	32.614	6.109	1.00	32.83
ATOM 1355 O SER 1021	52.570	33.172	6.073	1.00	36.57
ATOM 1356 N ARG 1022	50.513	32.957	6.981	1.00	31.88
ATOM 1358 CA ARG 1022	50.645	34.093	7.901	1.00	22.64
ATOM 1359 CB ARG 1022	49.294	34.483	8.465	1.00	17.89
ATOM 1360 CG ARG 1022	48.254	34.691	7.420	1.00	17.72
ATOM 1361 CD ARG 1022	48.648	35.816	6.468	1.00	18.00
ATOM 1362 NE ARG 1022	49.714	36.666	6.993	1.00	31.94
ATOM 1364 CZ ARG 1022	49.625	37.980	7.168	1.00	30.72
ATOM 1365 NH1 ARG 1022	50.653	38.644	7.662	1.00	23.85
ATOM 1368 NH2 ARG 1022	48.508	38.620	6.862	1.00	40.00
ATOM 1371 C ARG 1022	51.563	33.787	9.056	1.00	24.84
ATOM 1372 O ARG 1022	51.718	34.612	9.960	1.00	23.27
ATOM 1373 N LYS 1023	52.115	32.576	9.061	1.00	23.84
ATOM 1375 CA LYS 1023	53.039	32.137	10.094	1.00	23.59
ATOM 1376 CB LYS 1023	54.237	33.067	10.196	1.00	22.44
ATOM 1377 C LYS 1023	52.404	31.899	11.456	1.00	25.21
ATOM 1378 O LYS 1023	53.054	32.024	12.504	1.00	28.54
ATOM 1379 N CYS 1024	51.164	31.435	11.411	1.00	20.82
ATOM 1381 CA CYS 1024	50.404	31.114	12.595	1.00	28.12
ATOM 1382 CB CYS 1024	48.982	31.709	12.472	1.00	30.32
ATOM 1383 SG CYS 1024	48.936	33.504	12.847	1.00	33.73
ATOM 1384 C CYS 1024	50.388	29.576	12.729	1.00	32.20
ATOM 1385 O CYS 1024	50.636	28.882	11.756	1.00	38.70
ATOM 1386 N ILE 1025	50.167	29.057	13.934	1.00	30.55
ATOM 1388 CA ILE 1025	50.123	27.619	14.216	1.00	33.60
ATOM 1389 CB ILE 1025	51.406	27.169	14.970	1.00	36.10
ATOM 1390 CG2 ILE 1025	51.223	25.807	15.619	1.00	38.88
ATOM 1391 CG1 ILE 1025	52.585	27.121	13.988	1.00	38.38
ATOM 1392 CD1 ILE 1025	53.913	27.422	14.604	1.00	34.51
ATOM 1393 C ILE 1025	48.891	27.526	15.104	1.00	33.66
ATOM 1394 O ILE 1025	48.751	28.301	16.034	1.00	41.71
ATOM 1395 N HIS 1026	47.958	26.643	14.797	1.00	31.27
ATOM 1397 CA HIS 1026	46.742	26.570	15.589	1.00	27.97
ATOM 1398 CB HIS 1026	45.691	25.745	14.861	1.00	23.43
ATOM 1399 CG HIS 1026	44.283	26.091	15.229	1.00	30.06
ATOM 1400 CD2 HIS 1026	43.342	26.801	14.560	1.00	33.43
ATOM 1401 ND1 HIS 1026	43.680	25.659	16.393	1.00	24.53

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FIG. 7(28)

09939754-082801

ATOM 1403 CE1 HIS 1026  
 ATOM 1404 NE2 HIS 1026  
 ATOM 1406 C HIS 1026  
 ATOM 1407 O HIS 1026  
 ATOM 1408 N ARG 1027  
 ATOM 1410 CA ARG 1027  
 ATOM 1411 CB ARG 1027  
 ATOM 1412 C ARG 1027  
 ATOM 1413 O ARG 1027  
 ATOM 1414 N ASP 1028  
 ATOM 1416 CA ASP 1028  
 ATOM 1417 CB ASP 1028  
 ATOM 1418 CG ASP 1028  
 ATOM 1419 OD1 ASP 1028  
 ATOM 1420 OD2 ASP 1028  
 ATOM 1421 C ASP 1028  
 ATOM 1422 O ASP 1028  
 ATOM 1423 N LEU 1029  
 ATOM 1425 CA LEU 1029  
 ATOM 1426 CB LEU 1029  
 ATOM 1427 CG LEU 1029  
 ATOM 1428 CD1 LEU 1029  
 ATOM 1429 CD2 LEU 1029  
 ATOM 1430 C LEU 1029  
 ATOM 1431 O LEU 1029  
 ATOM 1432 N ALA 1030  
 ATOM 1434 CA ALA 1030  
 ATOM 1435 CB ALA 1030  
 ATOM 1436 C ALA 1030  
 ATOM 1437 O ALA 1030  
 ATOM 1438 N ALA 1031  
 ATOM 1440 CA ALA 1031  
 ATOM 1441 CB ALA 1031  
 ATOM 1442 C ALA 1031  
 ATOM 1443 O ALA 1031  
 ATOM 1444 N ARG 1032  
 ATOM 1446 CA ARG 1032  
 ATOM 1447 CB ARG 1032  
 ATOM 1448 CG ARG 1032  
 ATOM 1449 CD ARG 1032

42.428 26.085 16.424 1.00 26.31  
 42.199 26.781 15.321 1.00 29.05  
 46.901 26.086 17.036 1.00 30.13  
 46.335 26.681 17.955 1.00 37.96  
 47.662 25.024 17.244 1.00 26.58  
 47.872 24.429 18.583 1.00 31.87  
 48.235 25.483 19.666 1.00 20.17  
 46.762 23.449 19.055 1.00 31.55  
 47.047 22.477 19.742 1.00 38.11  
 45.528 23.629 18.597 1.00 30.85  
 44.466 22.698 18.955 1.00 26.34  
 43.788 23.098 20.248 1.00 32.60  
 42.847 22.020 20.755 1.00 35.64  
 41.692 22.346 21.096 1.00 36.08  
 43.267 20.842 20.790 1.00 40.39  
 43.435 22.565 17.841 1.00 26.23  
 42.276 22.926 17.998 1.00 23.40  
 43.884 22.034 16.708 1.00 24.88  
 43.053 21.842 15.533 1.00 23.16  
 43.958 21.772 14.299 1.00 18.78  
 43.221 21.714 12.965 1.00 20.21  
 42.349 22.952 12.812 1.00 15.13  
 44.249 21.601 11.827 1.00 22.91  
 42.237 20.562 15.700 1.00 25.25  
 42.765 19.473 15.591 1.00 30.47  
 40.949 20.703 15.957 1.00 25.99  
 40.062 19.574 16.182 1.00 25.19  
 39.872 19.387 17.679 1.00 24.55  
 38.761 20.007 15.558 1.00 27.35  
 38.611 21.202 15.302 1.00 33.46  
 37.797 19.094 15.379 1.00 25.19  
 36.508 19.451 14.752 1.00 22.16  
 35.772 18.210 14.270 1.00 21.71  
 35.551 20.353 15.536 1.00 20.96  
 34.639 20.950 14.944 1.00 21.36  
 35.712 20.388 16.859 1.00 22.49  
 34.898 21.246 17.736 1.00 27.01  
 35.157 20.945 19.220 1.00 25.22  
 36.534 21.451 19.707 1.00 34.44  
 37.150 20.503 20.770 1.00 46.39

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ATOM 1450 NE ARG 1032  
ATOM 1452 CZ ARG 1032  
ATOM 1453 NH1 ARG 1032  
ATOM 1456 NH2 ARG 1032  
ATOM 1459 C ARG 1032  
ATOM 1460 O ARG 1032  
ATOM 1461 N ASN 1033  
ATOM 1463 CA ASN 1033  
ATOM 1464 CB ASN 1033  
ATOM 1465 CG ASN 1033  
ATOM 1466 OD1 ASN 1033  
ATOM 1467 ND2 ASN 1033  
ATOM 1470 C ASN 1033  
ATOM 1471 O ASN 1033  
ATOM 1472 N ILE 1034  
ATOM 1474 CA ILE 1034  
ATOM 1475 CB ILE 1034  
ATOM 1476 CG2 ILE 1034  
ATOM 1477 CG1 ILE 1034  
ATOM 1478 CD1 ILE 1034  
ATOM 1479 C ILE 1034  
ATOM 1480 O ILE 1034  
ATOM 1481 N LEU 1035  
ATOM 1483 CA LEU 1035  
ATOM 1484 CB LEU 1035  
ATOM 1485 CG LEU 1035  
ATOM 1486 CD1 LEU 1035  
ATOM 1487 CD2 LEU 1035  
ATOM 1488 C LEU 1035  
ATOM 1489 O LEU 1035  
ATOM 1490 N LEU 1036  
ATOM 1492 CA LEU 1036  
ATOM 1493 CB LEU 1036  
ATOM 1494 CG LEU 1036  
ATOM 1495 CD1 LEU 1036  
ATOM 1496 CD2 LEU 1036  
ATOM 1497 C LEU 1036  
ATOM 1498 O LEU 1036  
ATOM 1499 N SER 1037  
ATOM 1501 CA SER 1037

38.554	20.752	21.158	1.00	41.28
39.464	19.799	21.352	1.00	32.28
40.677	20.129	21.709	1.00	27.74
39.178	18.524	21.148	1.00	31.24
35.296	22.708	17.482	1.00	25.91
34.601	23.605	17.935	1.00	30.23
36.451	22.911	16.840	1.00	20.90
37.008	24.222	16.495	1.00	15.77
38.497	24.290	16.813	1.00	18.29
38.760	24.160	18.254	1.00	20.60
37.891	24.445	19.067	1.00	29.84
39.929	23.677	18.601	1.00	18.08
36.839	24.535	15.019	1.00	19.29
37.619	25.303	14.450	1.00	17.18
35.934	23.822	14.366	1.00	17.56
35.631	24.092	12.972	1.00	17.92
35.813	22.868	12.091	1.00	15.66
35.364	23.192	10.647	1.00	12.61
37.247	22.349	12.221	1.00	10.08
38.312	23.384	11.994	1.00	18.10
34.147	24.381	13.075	1.00	21.87
33.410	23.592	13.669	1.00	26.72
33.711	25.524	12.575	1.00	21.91
32.311	25.883	12.670	1.00	19.45
32.190	27.310	13.181	1.00	18.73
32.102	27.454	14.691	1.00	21.53
33.019	26.518	15.456	1.00	8.66
32.391	28.881	15.016	1.00	19.34
31.700	25.764	11.316	1.00	20.15
32.377	25.977	10.310	1.00	21.51
30.429	25.390	11.275	1.00	24.13
29.745	25.237	10.006	1.00	26.96
29.027	23.882	9.909	1.00	20.57
28.149	23.631	8.681	1.00	17.23
28.877	23.617	7.360	1.00	7.53
27.566	22.306	8.900	1.00	18.85
28.827	26.432	9.755	1.00	31.45
27.953	26.794	10.557	1.00	29.93
29.094	27.061	8.628	1.00	34.52
28.410	28.248	8.215	1.00	37.11

FIG. 7(30)

ATOM 1502 CB SER 1037  
 ATOM 1503 OG SER 1037  
 ATOM 1505 C SER 1037  
 ATOM 1506 O SER 1037  
 ATOM 1507 N GLU 1038  
 ATOM 1509 CA GLU 1038  
 ATOM 1510 CB GLU 1038  
 ATOM 1511 CG GLU 1038  
 ATOM 1512 CD GLU 1038  
 ATOM 1513 OE1 GLU 1038  
 ATOM 1514 OE2 GLU 1038  
 ATOM 1515 C GLU 1038  
 ATOM 1516 O GLU 1038  
 ATOM 1517 N LYS 1039  
 ATOM 1519 CA LYS 1039  
 ATOM 1520 CB LYS 1039  
 ATOM 1521 C LYS 1039  
 ATOM 1522 O LYS 1039  
 ATOM 1523 N ASN 1040  
 ATOM 1525 CA ASN 1040  
 ATOM 1526 CB ASN 1040  
 ATOM 1527 CG ASN 1040  
 ATOM 1528 OD1 ASN 1040  
 ATOM 1529 ND2 ASN 1040  
 ATOM 1532 C ASN 1040  
 ATOM 1533 O ASN 1040  
 ATOM 1534 N VAL 1041  
 ATOM 1536 CA VAL 1041  
 ATOM 1537 CB VAL 1041  
 ATOM 1538 CG1 VAL 1041  
 ATOM 1539 CG2 VAL 1041  
 ATOM 1540 C VAL 1041  
 ATOM 1541 O VAL 1041  
 ATOM 1542 N VAL 1042  
 ATOM 1544 CA VAL 1042  
 ATOM 1545 CB VAL 1042  
 ATOM 1546 CG1 VAL 1042  
 ATOM 1547 CG2 VAL 1042  
 ATOM 1548 C VAL 1042  
 ATOM 1549 O VAL 1042

29.448 29.220 7.632 1.00 41.11  
 28.879 30.439 7.193 1.00 44.80  
 27.367 27.890 7.209 1.00 39.39  
 27.045 26.735 7.024 1.00 42.14  
 26.884 28.912 6.531 1.00 44.94  
 25.845 28.806 5.534 1.00 50.37  
 25.685 30.152 4.792 1.00 56.15  
 25.599 31.391 5.676 1.00 55.19  
 24.518 31.270 6.708 1.00 59.42  
 23.464 30.637 6.419 1.00 58.62  
 24.736 31.806 7.816 1.00 63.52  
 25.954 27.672 4.518 1.00 51.35  
 25.619 26.521 4.816 1.00 57.04  
 26.414 27.997 3.317 1.00 46.28  
 26.467 27.021 2.251 1.00 43.05  
 26.455 27.729 0.898 1.00 41.05  
 27.689 26.155 2.401 1.00 44.31  
 28.687 26.358 1.697 1.00 50.06  
 27.611 25.210 3.339 1.00 37.02  
 28.701 24.283 3.630 1.00 32.65  
 28.647 23.041 2.761 1.00 31.69  
 27.641 22.061 3.267 1.00 31.29  
 26.740 21.693 2.553 1.00 38.80  
 27.749 21.680 4.530 1.00 36.05  
 30.096 24.844 3.656 1.00 28.45  
 31.079 24.162 3.300 1.00 26.00  
 30.174 26.101 4.073 1.00 23.77  
 31.447 26.739 4.207 1.00 16.56  
 31.382 28.274 3.940 1.00 16.16  
 32.709 28.948 4.315 1.00 8.57  
 31.124 28.509 2.470 1.00 6.79  
 31.726 26.382 5.646 1.00 15.50  
 30.825 26.333 6.485 1.00 9.73  
 32.967 26.022 5.883 1.00 18.82  
 33.431 25.607 7.185 1.00 19.76  
 33.907 24.110 7.051 1.00 22.19  
 35.439 23.993 7.041 1.00 18.66  
 33.247 23.242 8.100 1.00 22.95  
 34.580 26.607 7.483 1.00 20.50  
 35.348 26.960 6.575 1.00 17.75

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FIG. 7(31)

ATOM 1550 N LYS 1043	34.675	27.082	8.726	1.00	18.30
ATOM 1552 CA LYS 1043	35.679	28.070	9.103	1.00	17.43
ATOM 1553 CB LYS 1043	34.977	29.420	9.277	1.00	17.68
ATOM 1554 CG LYS 1043	34.202	29.845	8.031	1.00	19.19
ATOM 1555 CD LYS 1043	33.560	31.228	8.186	1.00	26.86
ATOM 1556 CE LYS 1043	33.270	31.885	6.820	1.00	18.32
ATOM 1557 NZ LYS 1043	34.353	32.806	6.425	1.00	22.63
ATOM 1561 C LYS 1043	36.373	27.687	10.399	1.00	18.35
ATOM 1562 O LYS 1043	35.709	27.235	11.330	1.00	17.37
ATOM 1563 N ILE 1044	37.692	27.880	10.461	1.00	17.47
ATOM 1565 CA ILE 1044	38.504	27.558	11.645	1.00	21.49
ATOM 1566 CB ILE 1044	40.010	27.390	11.267	1.00	20.48
ATOM 1567 CG2 ILE 1044	40.896	27.250	12.502	1.00	15.75
ATOM 1568 CG1 ILE 1044	40.221	26.237	10.300	1.00	14.66
ATOM 1569 CD1 ILE 1044	41.584	26.344	9.669	1.00	12.76
ATOM 1570 C ILE 1044	38.432	28.735	12.626	1.00	30.73
ATOM 1571 O ILE 1044	38.370	29.888	12.207	1.00	31.68
ATOM 1572 N CYS 1045	38.454	28.436	13.918	1.00	38.50
ATOM 1574 CA CYS 1045	38.437	29.444	14.968	1.00	48.73
ATOM 1575 CB CYS 1045	37.027	29.586	15.558	1.00	50.35
ATOM 1576 SG CYS 1045	36.259	28.069	16.173	1.00	59.69
ATOM 1577 C CYS 1045	39.473	29.041	16.033	1.00	54.63
ATOM 1578 O CYS 1045	39.981	27.912	15.986	1.00	54.88
ATOM 1579 N ASP 1046	39.811	29.954	16.956	1.00	64.20
ATOM 1581 CA ASP 1046	40.816	29.700	18.021	1.00	69.98
ATOM 1582 CB ASP 1046	40.454	28.407	18.788	1.00	72.94
ATOM 1583 CG ASP 1046	41.338	28.165	20.009	1.00	75.40
ATOM 1584 OD1 ASP 1046	40.930	28.584	21.110	1.00	77.66
ATOM 1585 OD2 ASP 1046	42.428	27.547	19.878	1.00	75.18
ATOM 1586 C ASP 1046	42.219	29.580	17.354	1.00	74.21
ATOM 1587 O ASP 1046	43.183	29.036	17.940	1.00	74.94
ATOM 1588 N PHE 1047	42.307	30.205	16.171	1.00	75.46
ATOM 1590 CA PHE 1047	43.462	30.212	15.245	1.00	71.53
ATOM 1591 CB PHE 1047	42.919	30.267	13.790	1.00	72.10
ATOM 1592 CG PHE 1047	41.906	31.381	13.526	1.00	71.34
ATOM 1593 CD1 PHE 1047	42.139	32.327	12.526	1.00	74.26
ATOM 1594 CD2 PHE 1047	40.747	31.501	14.284	1.00	69.46
ATOM 1595 CE1 PHE 1047	41.242	33.367	12.293	1.00	70.87
ATOM 1596 CE2 PHE 1047	39.847	32.533	14.066	1.00	67.97
ATOM 1597 CZ PHE 1047	40.096	33.467	13.068	1.00	71.41

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[illegible]

44.681	31.163	15.426	1.00	67.78
44.507	32.345	15.797	1.00	63.26
29.579	17.003	25.123	1.00	69.86
30.534	16.464	24.050	1.00	69.93
31.028	15.321	24.179	1.00	71.35
30.776	17.189	23.063	1.00	71.45
31.511	17.821	26.539	1.00	64.90
31.512	19.029	26.788	1.00	64.09
29.229	17.550	27.534	1.00	67.30
30.204	17.019	26.533	1.00	67.58
32.617	17.135	26.278	1.00	61.87
33.932	17.759	26.244	1.00	58.06
34.479	17.935	27.650	1.00	56.61
34.888	16.915	25.397	1.00	57.97
34.491	15.906	24.788	1.00	56.86
36.155	17.313	25.400	1.00	54.64
37.182	16.664	24.607	1.00	50.99
37.538	17.539	23.393	1.00	49.53
36.459	17.608	22.335	1.00	52.76
36.866	16.805	21.125	1.00	57.63
35.847	16.645	20.093	1.00	57.02
35.976	17.033	18.824	1.00	55.63
34.984	16.797	17.995	1.00	57.63
37.046	17.691	18.385	1.00	40.52
38.428	16.513	25.427	1.00	49.01
38.652	17.274	26.364	1.00	46.29
39.251	15.546	25.041	1.00	46.48
40.510	15.320	25.709	1.00	45.62
40.703	13.840	26.073	1.00	45.53
41.335	13.519	27.441	1.00	44.07
42.236	12.322	27.273	1.00	37.52
42.109	14.710	28.057	1.00	39.60
41.530	15.778	24.677	1.00	42.00
41.983	15.010	23.832	1.00	41.05
41.854	17.072	24.698	1.00	41.22
41.265	18.104	25.584	1.00	34.16
42.817	17.661	23.761	1.00	38.41
42.919	19.104	24.277	1.00	36.08
41.496	19.355	24.828	1.00	29.23
44.197	16.961	23.571	1.00	35.36

FIG. 7(33)

ATOM 1650 O PRO 1068  
ATOM 1651 N LEU 1069  
ATOM 1653 CA LEU 1069  
ATOM 1654 CB LEU 1069  
ATOM 1655 CG LEU 1069  
ATOM 1656 CD1 LEU 1069  
ATOM 1657 CD2 LEU 1069  
ATOM 1658 C LEU 1069  
ATOM 1659 O LEU 1069  
ATOM 1660 N LYS 1070  
ATOM 1662 CA LYS 1070  
ATOM 1663 CB LYS 1070  
ATOM 1664 CG LYS 1070  
ATOM 1665 CD LYS 1070  
ATOM 1666 CE LYS 1070  
ATOM 1667 NZ LYS 1070  
ATOM 1671 C LYS 1070  
ATOM 1672 O LYS 1070  
ATOM 1673 N TRP 1071  
ATOM 1675 CA TRP 1071  
ATOM 1676 CB TRP 1071  
ATOM 1677 CG TRP 1071  
ATOM 1678 CD2 TRP 1071  
ATOM 1679 CE2 TRP 1071  
ATOM 1680 CE3 TRP 1071  
ATOM 1681 CD1 TRP 1071  
ATOM 1682 NE1 TRP 1071  
ATOM 1684 CZ2 TRP 1071  
ATOM 1685 CZ3 TRP 1071  
ATOM 1686 CH2 TRP 1071  
ATOM 1687 C TRP 1071  
ATOM 1688 O TRP 1071  
ATOM 1689 N MET 1072  
ATOM 1691 CA MET 1072  
ATOM 1692 CB MET 1072  
ATOM 1693 CG MET 1072  
ATOM 1694 SD MET 1072  
ATOM 1695 CE MET 1072  
ATOM 1696 C MET 1072  
ATOM 1697 O MET 1072

FIG. 7(34)

ATOM 1698 N ALA 1073  
 ATOM 1700 CA ALA 1073  
 ATOM 1701 CB ALA 1073  
 ATOM 1702 C ALA 1073  
 ATOM 1703 O ALA 1073  
 ATOM 1704 N PRO 1074  
 ATOM 1705 CD PRO 1074  
 ATOM 1706 CA PRO 1074  
 ATOM 1707 CB PRO 1074  
 ATOM 1708 CG PRO 1074  
 ATOM 1709 C PRO 1074  
 ATOM 1710 O PRO 1074  
 ATOM 1711 N GLU 1075  
 ATOM 1713 CA GLU 1075  
 ATOM 1714 CB GLU 1075  
 ATOM 1715 CG GLU 1075  
 ATOM 1716 CD GLU 1075  
 ATOM 1717 OE1 GLU 1075  
 ATOM 1718 OE2 GLU 1075  
 ATOM 1719 C GLU 1075  
 ATOM 1720 O GLU 1075  
 ATOM 1721 N THR 1076  
 ATOM 1723 CA THR 1076  
 ATOM 1724 CB THR 1076  
 ATOM 1725 OG1 THR 1076  
 ATOM 1727 CG2 THR 1076  
 ATOM 1728 C THR 1076  
 ATOM 1729 O THR 1076  
 ATOM 1730 N ILE 1077  
 ATOM 1732 CA ILE 1077  
 ATOM 1733 CB ILE 1077  
 ATOM 1734 CG2 ILE 1077  
 ATOM 1735 CG1 ILE 1077  
 ATOM 1736 CD1 ILE 1077  
 ATOM 1737 C ILE 1077  
 ATOM 1738 O ILE 1077  
 ATOM 1739 N PHE 1078  
 ATOM 1741 CA PHE 1078  
 ATOM 1742 CB PHE 1078  
 ATOM 1743 CG PHE 1078

50.545 15.800 18.547 1.00 25.55  
 51.571 15.024 17.874 1.00 29.80  
 52.369 15.912 16.958 1.00 22.65  
 52.448 14.453 18.989 1.00 34.88  
 52.431 14.970 20.115 1.00 39.38  
 53.183 13.355 18.724 1.00 36.01  
 53.087 12.450 17.570 1.00 31.55  
 54.040 12.771 19.769 1.00 36.24  
 54.544 11.485 19.115 1.00 34.34  
 53.415 11.137 18.193 1.00 31.88  
 55.189 13.670 20.288 1.00 37.13  
 55.570 13.575 21.447 1.00 34.58  
 55.746 14.533 19.440 1.00 37.40  
 56.813 15.422 19.884 1.00 40.62  
 57.598 15.990 18.707 1.00 33.55  
 56.853 16.957 17.844 1.00 39.40  
 55.952 16.300 16.828 1.00 43.14  
 55.965 15.055 16.720 1.00 49.09  
 55.228 17.040 16.124 1.00 44.63  
 56.239 16.546 20.757 1.00 42.73  
 56.903 17.061 21.639 1.00 44.76  
 54.982 16.888 20.524 1.00 46.13  
 54.304 17.923 21.283 1.00 46.22  
 52.991 18.319 20.605 1.00 43.95  
 53.245 18.666 19.230 1.00 46.46  
 52.361 19.481 21.334 1.00 43.93  
 53.991 17.378 22.662 1.00 47.62  
 54.175 18.057 23.650 1.00 52.45  
 53.442 16.173 22.717 1.00 47.96  
 53.123 15.528 23.980 1.00 46.99  
 52.496 14.151 23.720 1.00 46.43  
 52.691 13.232 24.895 1.00 46.16  
 51.024 14.306 23.384 1.00 44.29  
 50.336 13.010 23.163 1.00 46.43  
 54.418 15.345 24.767 1.00 51.37  
 54.473 15.577 25.974 1.00 52.53  
 55.458 14.931 24.058 1.00 53.41  
 56.750 14.696 24.672 1.00 58.94  
 57.506 13.570 23.925 1.00 60.74  
 56.901 12.184 24.124 1.00 57.84

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FIG. 7(35)

[illegible]

ATOM	1744	CD1 PHE	1078	56.
ATOM	1745	CD2 PHE	1078	57.
ATOM	1746	CE1 PHE	1078	55.
ATOM	1747	CE2 PHE	1078	56.
ATOM	1748	CZ PHE	1078	55.
ATOM	1749	C PHE	1078	57.
ATOM	1750	O PHE	1078	57.
ATOM	1751	N ASP	1079	58.
ATOM	1753	CA ASP	1079	5.
ATOM	1754	CB ASP	1079	6.
ATOM	1755	CG ASP	1079	6.
ATOM	1756	OD1 ASP	1079	6.
ATOM	1757	OD2 ASP	1079	6.
ATOM	1758	C ASP	1079	5.
ATOM	1759	O ASP	1079	
ATOM	1760	N ARG	1080	
ATOM	1762	CA ARG	1080	
ATOM	1763	CB ARG	1080	
ATOM	1764	CG ARG	1080	
ATOM	1765	CD ARG	1080	
ATOM	1766	NE ARG	1080	
ATOM	1768	CZ ARG	1080	
ATOM	1769	NH1 ARG	1080	
ATOM	1772	NH2 ARG	1080	
ATOM	1775	C ARG	1080	
ATOM	1776	O ARG	1080	
ATOM	1777	N VAL	1081	
ATOM	1779	CA VAL	1081	
ATOM	1780	CB VAL	1081	
ATOM	1781	CG1 VAL	1081	
ATOM	1782	CG2 VAL	1081	
ATOM	1783	C VAL	1081	
ATOM	1784	O VAL	1081	
ATOM	1785	N TYR	1082	
ATOM	1787	CA TYR	1082	
ATOM	1788	CB TYR	1082	
ATOM	1789	CG TYR	1082	
ATOM	1790	CD1 TYR	1082	
ATOM	1791	CE1 TYR	1082	
ATOM	1792	CD2 TYR	1082	

56.068	11.612	23.169	1.00	54.09
57.127	11.483	25.298	1.00	58.64
55.478	10.380	23.381	1.00	53.82
56.539	10.254	25.514	1.00	57.20
55.711	9.703	24.555	1.00	55.07
57.574	15.981	24.767	1.00	63.98
57.433	16.738	25.736	1.00	67.06
58.356	16.274	23.724	1.00	66.97
59.215	17.472	23.678	1.00	68.09
60.225	17.402	22.501	1.00	66.89
60.174	16.082	21.714	1.00	69.02
60.254	16.156	20.474	1.00	71.23
60.089	14.980	22.308	1.00	69.71
58.434	18.806	23.599	1.00	67.74
59.011	19.848	23.266	1.00	66.85
57.137	18.747	23.926	1.00	68.20
56.173	19.858	23.898	1.00	66.60
55.997	20.496	25.279	1.00	67.64
54.529	20.758	25.638	1.00	71.26
53.823	19.481	26.096	1.00	73.66
52.364	19.610	26.226	1.00	75.75
51.642	18.981	27.157	1.00	74.86
50.321	19.134	27.211	1.00	69.96
52.247	18.212	28.060	1.00	72.78
56.305	20.920	22.801	1.00	63.93
55.861	22.069	22.955	1.00	61.93
56.863	20.510	21.667	1.00	61.30
57.034	21.413	20.545	1.00	58.53
58.202	20.951	19.584	1.00	60.54
59.304	20.266	20.370	1.00	62.35
57.701	20.043	18.455	1.00	55.04
55.713	21.481	19.771	1.00	56.90
55.052	20.452	19.560	1.00	57.43
55.287	22.699	19.435	1.00	51.51
54.078	22.909	18.641	1.00	41.08
53.092	23.847	19.332	1.00	37.59
52.275	23.238	20.442	1.00	32.41
52.800	23.135	21.721	1.00	38.13
52.043	22.663	22.781	1.00	38.73
50.961	22.843	20.234	1.00	27.91

FIG. 7(36)

ATOM 1793 CE2 TYR 1082  
 ATOM 1794 CZ TYR 1082  
 ATOM 1795 OH TYR 1082  
 ATOM 1797 C TYR 1082  
 ATOM 1798 O TYR 1082  
 ATOM 1799 N THR 1083  
 ATOM 1801 CA THR 1083  
 ATOM 1802 CB THR 1083  
 ATOM 1803 OG1 THR 1083  
 ATOM 1805 CG2 THR 1083  
 ATOM 1806 C THR 1083  
 ATOM 1807 O THR 1083  
 ATOM 1808 N ILE 1084  
 ATOM 1810 CA ILE 1084  
 ATOM 1811 CB ILE 1084  
 ATOM 1812 CG2 ILE 1084  
 ATOM 1813 CG1 ILE 1084  
 ATOM 1814 CD1 ILE 1084  
 ATOM 1815 C ILE 1084  
 ATOM 1816 O ILE 1084  
 ATOM 1817 N GLN 1085  
 ATOM 1819 CA GLN 1085  
 ATOM 1820 CB GLN 1085  
 ATOM 1821 CG GLN 1085  
 ATOM 1822 CD GLN 1085  
 ATOM 1823 OE1 GLN 1085  
 ATOM 1824 NE2 GLN 1085  
 ATOM 1827 C GLN 1085  
 ATOM 1828 O GLN 1085  
 ATOM 1829 N SER 1086  
 ATOM 1831 CA SER 1086  
 ATOM 1832 CB SER 1086  
 ATOM 1833 OG SER 1086  
 ATOM 1835 C SER 1086  
 ATOM 1836 O SER 1086  
 ATOM 1837 N ASP 1087  
 ATOM 1839 CA ASP 1087  
 ATOM 1840 CB ASP 1087  
 ATOM 1841 CG ASP 1087  
 ATOM 1842 OD1 ASP 1087

50.189 22.374 21.287 1.00 33.59  
 50.739 22.290 22.572 1.00 36.82  
 50.001 21.874 23.679 1.00 39.60  
 54.591 23.598 17.410 1.00 34.81  
 55.240 24.608 17.545 1.00 33.62  
 54.394 22.997 16.236 1.00 34.71  
 54.819 23.573 14.946 1.00 30.90  
 56.106 22.894 14.384 1.00 29.46  
 55.789 21.598 13.837 1.00 30.18  
 57.159 22.768 15.486 1.00 21.74  
 53.678 23.371 13.946 1.00 27.79  
 52.651 22.777 14.293 1.00 28.80  
 53.804 23.869 12.721 1.00 24.37  
 52.700 23.615 11.797 1.00 27.69  
 52.739 24.381 10.465 1.00 28.65  
 51.450 25.166 10.284 1.00 29.19  
 53.977 25.259 10.361 1.00 37.75  
 55.235 24.517 9.985 1.00 46.61  
 52.689 22.143 11.459 1.00 26.44  
 51.627 21.589 11.173 1.00 24.29  
 53.861 21.507 11.518 1.00 25.11  
 53.920 20.097 11.188 1.00 24.39  
 55.315 19.612 10.823 1.00 27.61  
 55.753 20.012 9.411 1.00 33.25  
 54.653 19.826 8.347 1.00 34.07  
 53.943 20.779 8.004 1.00 41.60  
 54.546 18.632 7.797 1.00 28.88  
 53.296 19.267 12.258 1.00 23.23  
 52.900 18.141 11.981 1.00 25.97  
 53.195 19.798 13.480 1.00 20.86  
 52.488 19.040 14.507 1.00 18.08  
 53.044 19.256 15.926 1.00 20.91  
 52.870 20.559 16.440 1.00 21.60  
 50.962 19.336 14.353 1.00 20.67  
 50.138 18.531 14.806 1.00 13.79  
 50.602 20.415 13.609 1.00 18.68  
 49.190 20.793 13.324 1.00 11.08  
 49.038 22.249 12.805 1.00 21.08  
 48.845 23.287 13.920 1.00 23.79  
 49.348 24.407 13.745 1.00 31.01

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FIG. 7(37)

ATOM 1843 OD2 ASP 1087  
 ATOM 1844 C ASP 1087  
 ATOM 1845 O ASP 1087  
 ATOM 1846 N VAL 1088  
 ATOM 1848 CA VAL 1088  
 ATOM 1849 CB VAL 1088  
 ATOM 1850 CG1 VAL 1088  
 ATOM 1851 CG2 VAL 1088  
 ATOM 1852 C VAL 1088  
 ATOM 1853 O VAL 1088  
 ATOM 1854 N TRP 1089  
 ATOM 1856 CA TRP 1089  
 ATOM 1857 CB TRP 1089  
 ATOM 1858 CG TRP 1089  
 ATOM 1859 CD2 TRP 1089  
 ATOM 1860 CE2 TRP 1089  
 ATOM 1861 CE3 TRP 1089  
 ATOM 1862 CD1 TRP 1089  
 ATOM 1863 NE1 TRP 1089  
 ATOM 1865 CZ2 TRP 1089  
 ATOM 1866 CZ3 TRP 1089  
 ATOM 1867 CH2 TRP 1089  
 ATOM 1868 C TRP 1089  
 ATOM 1869 O TRP 1089  
 ATOM 1870 N SER 1090  
 ATOM 1872 CA SER 1090  
 ATOM 1873 CB SER 1090  
 ATOM 1874 OG SER 1090  
 ATOM 1876 C SER 1090  
 ATOM 1877 O SER 1090  
 ATOM 1878 N PHE 1091  
 ATOM 1880 CA PHE 1091  
 ATOM 1881 CB PHE 1091  
 ATOM 1882 CG PHE 1091  
 ATOM 1883 CD1 PHE 1091  
 ATOM 1884 CD2 PHE 1091  
 ATOM 1885 CE1 PHE 1091  
 ATOM 1886 CE2 PHE 1091  
 ATOM 1887 CZ PHE 1091  
 ATOM 1888 C PHE 1091

48.212 23.013 14.967 1.00 28.91  
 48.632 19.860 12.261 1.00 11.16  
 47.406 19.640 12.177 1.00 12.65  
 49.520 19.390 11.390 1.00 9.61  
 49.181 18.404 10.345 1.00 13.37  
 50.351 18.195 9.389 1.00 15.40  
 50.057 17.067 8.486 1.00 14.68  
 50.609 19.477 8.587 1.00 10.67  
 48.839 17.061 11.014 1.00 13.67  
 47.897 16.387 10.618 1.00 15.00  
 49.618 16.668 12.015 1.00 12.30  
 49.301 15.460 12.748 1.00 12.96  
 50.236 15.279 13.960 1.00 16.98  
 49.764 14.195 14.887 1.00 18.14  
 50.325 12.884 15.031 1.00 18.48  
 49.476 12.162 15.893 1.00 20.05  
 51.460 12.245 14.503 1.00 22.61  
 48.640 14.215 15.657 1.00 18.89  
 48.451 12.995 16.255 1.00 19.54  
 49.725 10.839 16.249 1.00 20.08  
 51.709 10.927 14.855 1.00 17.00  
 50.846 10.243 15.722 1.00 23.71  
 47.873 15.711 13.207 1.00 14.68  
 46.987 14.958 12.842 1.00 20.33  
 47.636 16.823 13.923 1.00 18.59  
 46.287 17.209 14.413 1.00 15.54  
 46.297 18.603 15.043 1.00 12.20  
 47.066 18.621 16.237 1.00 18.86  
 45.256 17.190 13.309 1.00 16.50  
 44.128 16.691 13.487 1.00 18.14  
 45.635 17.745 12.158 1.00 23.35  
 44.746 17.776 10.997 1.00 20.78  
 45.445 18.399 9.786 1.00 17.07  
 44.533 18.524 8.598 1.00 21.98  
 43.396 19.347 8.666 1.00 17.34  
 44.740 17.754 7.460 1.00 19.42  
 42.485 19.398 7.641 1.00 15.43  
 43.829 17.792 6.421 1.00 18.06  
 42.693 18.618 6.509 1.00 19.76  
 44.306 16.332 10.667 1.00 17.25

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FIG. 7(38)

ATOM 1889 O PHE 1091  
 ATOM 1890 N GLY 1092  
 ATOM 1892 CA GLY 1092  
 ATOM 1893 C GLY 1092  
 ATOM 1894 O GLY 1092  
 ATOM 1895 N VAL 1093  
 ATOM 1897 CA VAL 1093  
 ATOM 1898 CB VAL 1093  
 ATOM 1899 CG1 VAL 1093  
 ATOM 1900 CG2 VAL 1093  
 ATOM 1901 C VAL 1093  
 ATOM 1902 O VAL 1093  
 ATOM 1903 N LEU 1094  
 ATOM 1905 CA LEU 1094  
 ATOM 1906 CB LEU 1094  
 ATOM 1907 CG LEU 1094  
 ATOM 1908 CD1 LEU 1094  
 ATOM 1909 CD2 LEU 1094  
 ATOM 1910 C LEU 1094  
 ATOM 1911 O LEU 1094  
 ATOM 1912 N LEU 1095  
 ATOM 1914 CA LEU 1095  
 ATOM 1915 CB LEU 1095  
 ATOM 1916 CG LEU 1095  
 ATOM 1917 CD1 LEU 1095  
 ATOM 1918 CD2 LEU 1095  
 ATOM 1919 C LEU 1095  
 ATOM 1920 O LEU 1095  
 ATOM 1921 N TRP 1096  
 ATOM 1923 CA TRP 1096  
 ATOM 1924 CB TRP 1096  
 ATOM 1925 CG TRP 1096  
 ATOM 1926 CD2 TRP 1096  
 ATOM 1927 CE2 TRP 1096  
 ATOM 1928 CE3 TRP 1096  
 ATOM 1929 CD1 TRP 1096  
 ATOM 1930 NE1 TRP 1096  
 ATOM 1932 CZ2 TRP 1096  
 ATOM 1933 CZ3 TRP 1096  
 ATOM 1934 CH2 TRP 1096

43.147 16.077 10.334 1.00 15.79  
 45.258 15.408 10.812 1.00 19.49  
 45.042 13.988 10.577 1.00 18.11  
 44.029 13.429 11.544 1.00 19.35  
 43.235 12.581 11.137 1.00 24.23  
 44.073 13.836 12.819 1.00 18.53  
 43.055 13.392 13.788 1.00 20.09  
 43.389 13.752 15.298 1.00 15.18  
 42.421 13.051 16.187 1.00 17.08  
 44.778 13.310 15.698 1.00 11.27  
 41.661 13.971 13.376 1.00 22.42  
 40.649 13.253 13.396 1.00 26.19  
 41.618 15.235 12.938 1.00 23.95  
 40.363 15.893 12.484 1.00 19.63  
 40.667 17.338 12.050 1.00 25.24  
 39.587 18.420 11.974 1.00 27.30  
 40.136 19.497 11.113 1.00 28.26  
 38.265 17.929 11.385 1.00 27.54  
 39.775 15.146 11.280 1.00 16.12  
 38.555 15.002 11.129 1.00 16.14  
 40.631 14.766 10.348 1.00 16.30  
 40.155 14.003 9.195 1.00 17.98  
 41.321 13.538 8.317 1.00 16.52  
 41.981 14.536 7.386 1.00 14.88  
 42.807 13.734 6.399 1.00 11.81  
 40.931 15.401 6.639 1.00 21.08  
 39.437 12.770 9.722 1.00 17.52  
 38.324 12.448 9.270 1.00 16.23  
 40.077 12.105 10.697 1.00 14.50  
 39.509 10.916 11.304 1.00 14.02  
 40.452 10.330 12.337 1.00 13.21  
 40.010 8.992 12.850 1.00 18.93  
 39.016 8.732 13.856 1.00 24.77  
 38.952 7.319 14.020 1.00 27.07  
 38.178 9.546 14.647 1.00 29.39  
 40.483 7.781 12.460 1.00 21.28  
 39.854 6.770 13.154 1.00 18.61  
 38.075 6.700 14.954 1.00 28.21  
 37.303 8.927 15.581 1.00 29.42  
 37.266 7.511 15.719 1.00 27.60

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FIG. 7(39)

ATOM 1935 C TRP 1096  
 ATOM 1936 O TRP 1096  
 ATOM 1937 N GLU 1097  
 ATOM 1939 CA GLU 1097  
 ATOM 1940 CB GLU 1097  
 ATOM 1941 CG GLU 1097  
 ATOM 1942 CD GLU 1097  
 ATOM 1943 OE1 GLU 1097  
 ATOM 1944 OE2 GLU 1097  
 ATOM 1945 C GLU 1097  
 ATOM 1946 O GLU 1097  
 ATOM 1947 N ILE 1098  
 ATOM 1949 CA ILE 1098  
 ATOM 1950 CB ILE 1098  
 ATOM 1951 CG2 ILE 1098  
 ATOM 1952 CG1 ILE 1098  
 ATOM 1953 CD1 ILE 1098  
 ATOM 1954 C ILE 1098  
 ATOM 1955 O ILE 1098  
 ATOM 1956 N PHE 1099  
 ATOM 1958 CA PHE 1099  
 ATOM 1959 CB PHE 1099  
 ATOM 1960 CG PHE 1099  
 ATOM 1961 CD1 PHE 1099  
 ATOM 1962 CD2 PHE 1099  
 ATOM 1963 CE1 PHE 1099  
 ATOM 1964 CE2 PHE 1099  
 ATOM 1965 CZ PHE 1099  
 ATOM 1966 C PHE 1099  
 ATOM 1967 O PHE 1099  
 ATOM 1968 N SER 1100  
 ATOM 1970 CA SER 1100  
 ATOM 1971 CB SER 1100  
 ATOM 1972 OG SER 1100  
 ATOM 1974 C SER 1100  
 ATOM 1975 O SER 1100  
 ATOM 1976 N LEU 1101  
 ATOM 1978 CA LEU 1101  
 ATOM 1979 CB LEU 1101  
 ATOM 1980 CG LEU 1101

38.159 11.236 11.927 1.00 18.94  
 37.212 10.439 11.826 1.00 22.31  
 38.046 12.385 12.592 1.00 23.97  
 36.754 12.750 13.195 1.00 21.61  
 36.823 14.012 14.041 1.00 26.60  
 37.880 14.065 15.109 1.00 21.55  
 37.795 15.380 15.800 1.00 23.56  
 36.726 15.591 16.393 1.00 21.97  
 38.741 16.208 15.706 1.00 20.79  
 35.744 13.010 12.116 1.00 19.15  
 34.549 12.766 12.304 1.00 28.35  
 36.190 13.565 11.001 1.00 17.99  
 35.244 13.821 9.915 1.00 17.98  
 35.862 14.650 8.732 1.00 13.59  
 34.880 14.725 7.568 1.00 13.47  
 36.169 16.074 9.181 1.00 11.46  
 36.691 16.960 8.074 1.00 9.72  
 34.645 12.529 9.372 1.00 16.07  
 33.444 12.445 9.171 1.00 18.22  
 35.460 11.499 9.171 1.00 20.11  
 34.925 10.257 8.601 1.00 18.95  
 35.909 9.660 7.625 1.00 16.86  
 36.269 10.584 6.517 1.00 12.61  
 37.308 11.468 6.671 1.00 14.37  
 35.522 10.624 5.362 1.00 18.03  
 37.595 12.369 5.717 1.00 13.66  
 35.811 11.553 4.378 1.00 16.05  
 36.843 12.418 4.568 1.00 17.86  
 34.368 9.201 9.551 1.00 23.18  
 34.111 8.070 9.149 1.00 22.90  
 34.274 9.553 10.825 1.00 26.68  
 33.652 8.690 11.820 1.00 24.51  
 34.504 8.572 13.079 1.00 25.60  
 34.826 9.842 13.625 1.00 29.76  
 32.398 9.465 12.145 1.00 26.92  
 31.765 9.211 13.157 1.00 31.32  
 32.018 10.387 11.251 1.00 28.15  
 30.860 11.241 11.453 1.00 24.97  
 29.556 10.557 11.015 1.00 22.00  
 29.423 10.410 9.495 1.00 25.66

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FIG. 7(40)

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ATOM 1981 CD1 LEU 1101  
 ATOM 1982 CD2 LEU 1101  
 ATOM 1983 C LEU 1101  
 ATOM 1984 O LEU 1101  
 ATOM 1985 N GLY 1102  
 ATOM 1987 CA GLY 1102  
 ATOM 1988 C GLY 1102  
 ATOM 1989 O GLY 1102  
 ATOM 1990 N ALA 1103  
 ATOM 1992 CA ALA 1103  
 ATOM 1993 CB ALA 1103  
 ATOM 1994 C ALA 1103  
 ATOM 1995 O ALA 1103  
 ATOM 1996 N SER 1104  
 ATOM 1998 CA SER 1104  
 ATOM 1999 CB SER 1104  
 ATOM 2000 OG SER 1104  
 ATOM 2002 C SER 1104  
 ATOM 2003 O SER 1104  
 ATOM 2004 N PRO 1105  
 ATOM 2005 CD PRO 1105  
 ATOM 2006 CA PRO 1105  
 ATOM 2007 CB PRO 1105  
 ATOM 2008 CG PRO 1105  
 ATOM 2009 C PRO 1105  
 ATOM 2010 O PRO 1105  
 ATOM 2011 N TYR 1106  
 ATOM 2013 CA TYR 1106  
 ATOM 2014 CB TYR 1106  
 ATOM 2015 CG TYR 1106  
 ATOM 2016 CD1 TYR 1106  
 ATOM 2017 CE1 TYR 1106  
 ATOM 2018 CD2 TYR 1106  
 ATOM 2019 CE2 TYR 1106  
 ATOM 2020 CZ TYR 1106  
 ATOM 2021 OH TYR 1106  
 ATOM 2023 C TYR 1106  
 ATOM 2024 O TYR 1106  
 ATOM 2025 N PRO 1107  
 ATOM 2026 CD PRO 1107

28.060 9.866 9.127 1.00 22.23  
 29.632 11.768 8.829 1.00 32.30  
 30.771 11.779 12.888 1.00 26.64  
 29.793 11.552 13.580 1.00 31.34  
 31.828 12.446 13.336 1.00 24.93  
 31.836 13.057 14.650 1.00 28.61  
 32.129 12.293 15.917 1.00 32.38  
 31.647 12.693 16.950 1.00 35.69  
 33.004 11.291 15.876 1.00 35.95  
 33.354 10.500 17.060 1.00 31.27  
 33.515 9.041 16.672 1.00 36.15  
 34.625 10.972 17.747 1.00 34.29  
 35.382 11.788 17.190 1.00 36.92  
 34.886 10.417 18.934 1.00 33.11  
 36.087 10.744 19.715 1.00 35.13  
 35.906 10.422 21.207 1.00 38.40  
 34.719 10.964 21.765 1.00 50.36  
 37.216 9.852 19.249 1.00 34.54  
 37.039 8.640 19.167 1.00 33.44  
 38.395 10.434 18.963 1.00 32.93  
 38.678 11.877 18.972 1.00 31.54  
 39.571 9.693 18.513 1.00 29.88  
 40.633 10.781 18.465 1.00 22.24  
 39.883 11.965 18.079 1.00 28.04  
 39.919 8.659 19.582 1.00 32.54  
 39.480 8.795 20.731 1.00 28.79  
 40.700 7.648 19.196 1.00 34.52  
 41.148 6.564 20.085 1.00 39.62  
 42.374 6.994 20.896 1.00 37.66  
 43.496 7.566 20.059 1.00 39.50  
 43.690 8.957 19.976 1.00 37.50  
 44.655 9.518 19.143 1.00 35.61  
 44.315 6.739 19.293 1.00 34.54  
 45.305 7.290 18.446 1.00 38.80  
 45.466 8.686 18.373 1.00 38.23  
 46.412 9.240 17.520 1.00 31.37  
 40.022 6.128 21.016 1.00 47.24  
 40.100 6.296 22.247 1.00 46.94  
 38.947 5.570 20.431 1.00 52.30  
 38.880 5.234 18.996 1.00 52.76

FIG. 7(41)

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ATOM 2027 CA PRO 1107	37.750	5.088	21.125	1.00	55.67
ATOM 2028 CB PRO 1107	37.078	4.223	20.066	1.00	55.09
ATOM 2029 CG PRO 1107	37.420	4.931	18.797	1.00	52.62
ATOM 2030 C PRO 1107	38.035	4.300	22.408	1.00	60.55
ATOM 2031 O PRO 1107	38.668	3.231	22.377	1.00	60.88
ATOM 2032 N GLY 1108	37.631	4.894	23.533	1.00	62.85
ATOM 2034 CA GLY 1108	37.790	4.284	24.845	1.00	63.10
ATOM 2035 C GLY 1108	39.171	3.783	25.228	1.00	61.44
ATOM 2036 O GLY 1108	39.319	3.010	26.178	1.00	63.49
ATOM 2037 N VAL 1109	40.181	4.228	24.498	1.00	58.31
ATOM 2039 CA VAL 1109	41.548	3.835	24.766	1.00	55.54
ATOM 2040 CB VAL 1109	42.430	4.181	23.580	1.00	54.11
ATOM 2041 CG1 VAL 1109	43.857	3.787	23.857	1.00	51.33
ATOM 2042 CG2 VAL 1109	41.875	3.528	22.306	1.00	54.09
ATOM 2043 C VAL 1109	42.006	4.657	25.949	1.00	57.04
ATOM 2044 O VAL 1109	41.492	5.749	26.163	1.00	57.18
ATOM 2045 N LYS 1110	42.969	4.140	26.711	1.00	59.43
ATOM 2047 CA LYS 1110	43.497	4.849	27.880	1.00	60.27
ATOM 2048 CB LYS 1110	43.928	3.842	28.936	1.00	63.70
ATOM 2049 C LYS 1110	44.664	5.796	27.538	1.00	60.52
ATOM 2050 O LYS 1110	45.570	5.410	26.780	1.00	61.06
ATOM 2051 N ILE 1111	44.665	7.006	28.115	1.00	58.79
ATOM 2053 CA ILE 1111	45.732	7.987	27.859	1.00	60.01
ATOM 2054 CB ILE 1111	45.236	9.441	27.886	1.00	63.41
ATOM 2055 CG2 ILE 1111	44.517	9.798	26.596	1.00	58.31
ATOM 2056 CG1 ILE 1111	44.413	9.688	29.145	1.00	69.87
ATOM 2057 CD1 ILE 1111	44.341	11.144	29.528	1.00	75.64
ATOM 2058 C ILE 1111	46.949	7.891	28.781	1.00	58.91
ATOM 2059 O ILE 1111	47.670	8.862	28.992	1.00	59.56
ATOM 2060 N ASP 1112	47.187	6.697	29.299	1.00	60.43
ATOM 2062 CA ASP 1112	48.312	6.407	30.173	1.00	56.25
ATOM 2063 CB ASP 1112	48.318	4.919	30.421	1.00	59.88
ATOM 2064 CG ASP 1112	48.273	4.131	29.122	1.00	67.87
ATOM 2065 OD1 ASP 1112	47.179	3.893	28.564	1.00	71.34
ATOM 2066 OD2 ASP 1112	49.348	3.765	28.628	1.00	72.11
ATOM 2067 C ASP 1112	49.612	6.795	29.489	1.00	54.37
ATOM 2068 O ASP 1112	49.634	7.066	28.284	1.00	50.67
ATOM 2069 N GLU 1113	50.710	6.741	30.236	1.00	55.36
ATOM 2071 CA GLU 1113	52.024	7.089	29.683	1.00	55.99
ATOM 2072 CB GLU 1113	53.051	7.374	30.806	1.00	58.69

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52.552	6.015	28.726	1.00	54.42
53.624	6.175	28.126	1.00	51.91
51.822	4.903	28.627	1.00	51.54
52.192	3.819	27.719	1.00	54.36
51.873	2.452	28.322	1.00	56.43
53.072	1.749	28.948	1.00	63.29
53.996	2.661	29.772	1.00	67.36
55.153	2.870	29.329	1.00	67.34
53.590	3.127	30.873	1.00	68.20
51.440	4.031	26.412	1.00	52.22
51.830	3.514	25.360	1.00	51.74
50.383	4.840	26.486	1.00	49.67
49.603	5.175	25.320	1.00	44.59
48.400	6.013	25.688	1.00	44.73
47.918	6.890	24.579	1.00	49.93
48.140	8.270	24.621	1.00	50.02
47.251	6.344	23.477	1.00	53.38
47.704	9.098	23.577	1.00	52.88
46.805	7.158	22.425	1.00	51.00
47.033	8.535	22.474	1.00	54.64
50.582	5.981	24.507	1.00	46.08
50.929	5.572	23.402	1.00	47.48
51.127	7.047	25.101	1.00	43.91
52.109	7.898	24.404	1.00	45.79
52.473	9.113	25.247	1.00	44.47
51.129	9.723	26.295	1.00	64.10
53.392	7.140	24.019	1.00	46.03
54.232	7.667	23.279	1.00	46.86
53.536	5.911	24.529	1.00	44.91
54.688	5.069	24.237	1.00	41.89
54.882	4.001	25.308	1.00	43.78
56.237	3.298	25.233	1.00	45.19
56.189	1.905	25.856	1.00	47.09
55.490	0.922	25.021	1.00	49.55
54.329	0.337	25.336	1.00	51.59
53.783	-0.547	24.506	1.00	51.49
53.695	0.649	26.461	1.00	47.17
54.370	4.389	22.927	1.00	38.98
55.156	4.455	21.996	1.00	42.49
53.206	3.751	22.860	1.00	35.52

FIG. 7(43)

ATOM 2123 CA ARG 1118	52.745	3.072	21.649	1.00	36.78
ATOM 2124 CB ARG 1118	51.330	2.559	21.880	1.00	31.14
ATOM 2125 CG ARG 1118	51.216	1.675	23.068	1.00	34.41
ATOM 2126 CD ARG 1118	49.766	1.587	23.535	1.00	45.83
ATOM 2127 NE ARG 1118	48.897	0.750	22.693	1.00	53.41
ATOM 2129 CZ ARG 1118	47.564	0.658	22.826	1.00	55.58
ATOM 2130 NH1 ARG 1118	46.862	-0.144	22.025	1.00	56.70
ATOM 2133 NH2 ARG 1118	46.921	1.380	23.745	1.00	55.55
ATOM 2136 C ARG 1118	52.742	4.067	20.471	1.00	38.92
ATOM 2137 O ARG 1118	53.331	3.835	19.400	1.00	38.28
ATOM 2138 N LEU 1119	52.063	5.186	20.711	1.00	40.67
ATOM 2140 CA LEU 1119	51.912	6.295	19.779	1.00	36.71
ATOM 2141 CB LEU 1119	51.192	7.416	20.540	1.00	32.46
ATOM 2142 CG LEU 1119	50.238	8.508	20.049	1.00	25.91
ATOM 2143 CD1 LEU 1119	51.047	9.651	19.564	1.00	19.62
ATOM 2144 CD2 LEU 1119	49.250	7.993	19.024	1.00	22.26
ATOM 2145 C LEU 1119	53.301	6.728	19.245	1.00	38.89
ATOM 2146 O LEU 1119	53.469	6.960	18.047	1.00	43.59
ATOM 2147 N LYS 1120	54.315	6.771	20.099	1.00	42.22
ATOM 2149 CA LYS 1120	55.649	7.152	19.640	1.00	41.56
ATOM 2150 CB LYS 1120	56.523	7.548	20.813	1.00	42.85
ATOM 2151 CG LYS 1120	57.467	8.670	20.467	1.00	52.51
ATOM 2152 CD LYS 1120	58.407	8.989	21.620	1.00	60.23
ATOM 2153 CE LYS 1120	59.298	10.206	21.321	1.00	69.72
ATOM 2154 NZ LYS 1120	58.605	11.557	21.283	1.00	76.23
ATOM 2158 C LYS 1120	56.351	6.050	18.825	1.00	43.73
ATOM 2159 O LYS 1120	57.287	6.342	18.073	1.00	47.49
ATOM 2160 N GLU 1121	55.892	4.800	18.966	1.00	43.94
ATOM 2162 CA GLU 1121	56.453	3.636	18.262	1.00	41.07
ATOM 2163 CB GLU 1121	56.415	2.395	19.147	1.00	48.40
ATOM 2164 CG GLU 1121	57.553	2.283	20.112	1.00	58.39
ATOM 2165 CD GLU 1121	57.183	1.451	21.309	1.00	64.79
ATOM 2166 OE1 GLU 1121	56.403	0.483	21.119	1.00	67.43
ATOM 2167 OE2 GLU 1121	57.657	1.778	22.431	1.00	67.24
ATOM 2168 C GLU 1121	55.739	3.284	16.968	1.00	39.16
ATOM 2169 O GLU 1121	56.224	2.423	16.216	1.00	39.90
ATOM 2170 N GLY 1122	54.525	3.805	16.781	1.00	31.72
ATOM 2172 CA GLY 1122	53.838	3.550	15.531	1.00	22.36
ATOM 2173 C GLY 1122	52.427	3.064	15.646	1.00	19.85
ATOM 2174 O GLY 1122	51.791	2.779	14.633	1.00	18.01

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FIG. 7(44)

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ATOM 2175 N THR 1123	51.918	2.946	16.860	1.00	16.84
ATOM 2177 CA THR 1123	50.535	2.502	16.989	1.00	22.17
ATOM 2178 CB THR 1123	50.209	2.144	18.469	1.00	29.75
ATOM 2179 OG1 THR 1123	51.148	1.174	18.971	1.00	31.60
ATOM 2181 CG2 THR 1123	48.794	1.587	18.591	1.00	31.44
ATOM 2182 C THR 1123	49.653	3.673	16.453	1.00	23.74
ATOM 2183 O THR 1123	49.940	4.850	16.721	1.00	18.73
ATOM 2184 N ARG 1124	48.597	3.354	15.701	1.00	22.93
ATOM 2186 CA ARG 1124	47.735	4.379	15.125	1.00	17.39
ATOM 2187 CB ARG 1124	48.094	4.680	13.670	1.00	17.70
ATOM 2188 CG ARG 1124	49.478	5.192	13.406	1.00	14.57
ATOM 2189 CD ARG 1124	49.713	6.484	14.040	1.00	14.31
ATOM 2190 NE ARG 1124	51.046	6.935	13.684	1.00	10.98
ATOM 2192 CZ ARG 1124	52.067	6.988	14.533	1.00	16.02
ATOM 2193 NH1 ARG 1124	51.861	6.604	15.775	1.00	10.96
ATOM 2196 NH2 ARG 1124	53.269	7.468	14.163	1.00	8.74
ATOM 2199 C ARG 1124	46.317	3.893	15.096	1.00	16.31
ATOM 2200 O ARG 1124	46.085	2.698	15.022	1.00	20.38
ATOM 2201 N MET 1125	45.380	4.847	15.081	1.00	21.15
ATOM 2203 CA MET 1125	43.943	4.570	15.023	1.00	23.81
ATOM 2204 CB MET 1125	43.158	5.870	15.012	1.00	16.88
ATOM 2205 CG MET 1125	42.783	6.397	16.380	1.00	17.08
ATOM 2206 SD MET 1125	41.656	7.825	16.270	1.00	25.19
ATOM 2207 CE MET 1125	42.908	9.123	15.776	1.00	17.02
ATOM 2208 C MET 1125	43.604	3.789	13.749	1.00	29.80
ATOM 2209 O MET 1125	44.298	3.923	12.748	1.00	33.37
ATOM 2210 N ARG 1126	42.576	2.953	13.806	1.00	36.07
ATOM 2212 CA ARG 1126	42.116	2.183	12.668	1.00	36.36
ATOM 2213 CB ARG 1126	41.465	0.859	13.154	1.00	40.10
ATOM 2214 CG ARG 1126	40.257	1.021	14.061	1.00	54.46
ATOM 2215 CD ARG 1126	38.956	1.268	13.263	1.00	65.08
ATOM 2216 NE ARG 1126	37.839	1.758	14.091	1.00	72.39
ATOM 2218 CZ ARG 1126	36.545	1.753	13.740	1.00	74.53
ATOM 2219 NH1 ARG 1126	35.636	2.233	14.588	1.00	78.72
ATOM 2222 NH2 ARG 1126	36.140	1.267	12.562	1.00	74.28
ATOM 2225 C ARG 1126	41.124	3.094	11.888	1.00	32.52
ATOM 2226 O ARG 1126	40.706	4.117	12.380	1.00	34.88
ATOM 2227 N ALA 1127	40.760	2.725	10.676	1.00	29.80
ATOM 2229 CA ALA 1127	39.888	3.508	9.812	1.00	29.83
ATOM 2230 CB ALA 1127	39.743	2.782	8.460	1.00	32.24

FIG. 7(45)

ATOM 2231 C ALA 1127  
ATOM 2232 O ALA 1127  
ATOM 2233 N PRO 1128  
ATOM 2234 CD PRO 1128  
ATOM 2235 CA PRO 1128  
ATOM 2236 CB PRO 1128  
ATOM 2237 CG PRO 1128  
ATOM 2238 C PRO 1128  
ATOM 2239 O PRO 1128  
ATOM 2240 N ASP 1129  
ATOM 2242 CA ASP 1129  
ATOM 2243 CB ASP 1129  
ATOM 2244 CG ASP 1129  
ATOM 2245 OD1 ASP 1129  
ATOM 2246 OD2 ASP 1129  
ATOM 2247 C ASP 1129  
ATOM 2248 O ASP 1129  
ATOM 2249 N TYR 1130  
ATOM 2251 CA TYR 1130  
ATOM 2252 CB TYR 1130  
ATOM 2253 CG TYR 1130  
ATOM 2254 CD1 TYR 1130  
ATOM 2255 CE1 TYR 1130  
ATOM 2256 CD2 TYR 1130  
ATOM 2257 CE2 TYR 1130  
ATOM 2258 CZ TYR 1130  
ATOM 2259 OH TYR 1130  
ATOM 2261 C TYR 1130  
ATOM 2262 O TYR 1130  
ATOM 2263 N THR 1131  
ATOM 2265 CA THR 1131  
ATOM 2266 CB THR 1131  
ATOM 2267 OG1 THR 1131  
ATOM 2269 CG2 THR 1131  
ATOM 2270 C THR 1131  
ATOM 2271 O THR 1131  
ATOM 2272 N THR 1132  
ATOM 2274 CA THR 1132  
ATOM 2275 CB THR 1132  
ATOM 2276 OG1 THR 1132

38.518	3.697	10.415	1.00	34.29
37.944	2.727	10.881	1.00	39.95
37.943	4.934	10.335	1.00	34.66
38.477	6.142	9.685	1.00	35.04
36.612	5.251	10.871	1.00	31.59
36.511	6.776	10.669	1.00	32.56
37.819	7.222	10.499	1.00	31.06
35.648	4.597	9.916	1.00	33.99
35.975	4.429	8.749	1.00	38.28
34.416	4.371	10.344	1.00	31.98
33.425	3.728	9.489	1.00	34.11
32.157	3.432	10.277	1.00	29.91
32.447	2.811	11.623	1.00	34.04
33.519	2.172	11.805	1.00	35.22
31.597	2.976	12.515	1.00	36.43
33.061	4.360	8.158	1.00	35.75
32.441	3.699	7.312	1.00	38.26
33.444	5.613	7.925	1.00	32.58
33.056	6.200	6.649	1.00	34.86
32.067	7.332	6.888	1.00	38.26
30.996	6.960	7.889	1.00	37.51
31.208	7.153	9.245	1.00	36.44
30.249	6.853	10.148	1.00	40.00
29.787	6.442	7.468	1.00	39.18
28.813	6.143	8.360	1.00	34.53
29.050	6.353	9.709	1.00	39.16
28.120	6.147	10.690	1.00	47.34
34.136	6.657	5.732	1.00	34.80
33.853	7.257	4.694	1.00	27.05
35.388	6.414	6.108	1.00	37.58
36.457	6.829	5.238	1.00	38.70
37.783	6.598	5.763	1.00	39.57
37.775	5.417	6.564	1.00	51.23
38.250	7.775	6.481	1.00	49.58
36.476	6.071	3.955	1.00	38.19
35.913	4.967	3.808	1.00	38.82
37.297	6.649	3.104	1.00	31.58
37.638	6.148	1.836	1.00	27.37
37.591	7.302	0.887	1.00	18.06
36.274	7.366	0.348	1.00	29.75

FIG. 7(46)

ATOM 2278 CG2 THR 1132  
 ATOM 2279 C THR 1132  
 ATOM 2280 O THR 1132  
 ATOM 2281 N PRO 1133  
 ATOM 2282 CD PRO 1133  
 ATOM 2283 CA PRO 1133  
 ATOM 2284 CB PRO 1133  
 ATOM 2285 CG PRO 1133  
 ATOM 2286 C PRO 1133  
 ATOM 2287 O PRO 1133  
 ATOM 2288 N GLU 1134  
 ATOM 2290 CA GLU 1134  
 ATOM 2291 CB GLU 1134  
 ATOM 2292 CG GLU 1134  
 ATOM 2293 CD GLU 1134  
 ATOM 2294 OE1 GLU 1134  
 ATOM 2295 OE2 GLU 1134  
 ATOM 2296 C GLU 1134  
 ATOM 2297 O GLU 1134  
 ATOM 2298 N MET 1135  
 ATOM 2300 CA MET 1135  
 ATOM 2301 CB MET 1135  
 ATOM 2302 CG MET 1135  
 ATOM 2303 SD MET 1135  
 ATOM 2304 CE MET 1135  
 ATOM 2305 C MET 1135  
 ATOM 2306 O MET 1135  
 ATOM 2307 N TYR 1136  
 ATOM 2309 CA TYR 1136  
 ATOM 2310 CB TYR 1136  
 ATOM 2311 CG TYR 1136  
 ATOM 2312 CD1 TYR 1136  
 ATOM 2313 CE1 TYR 1136  
 ATOM 2314 CD2 TYR 1136  
 ATOM 2315 CE2 TYR 1136  
 ATOM 2316 CZ TYR 1136  
 ATOM 2317 OH TYR 1136  
 ATOM 2319 C TYR 1136  
 ATOM 2320 O TYR 1136  
 ATOM 2321 N GLN 1137

38.528 7.126 -0.161 1.00 32.09  
 39.064 5.634 2.159 1.00 31.18  
 39.678 6.088 3.149 1.00 37.35  
 39.543 4.601 1.439 1.00 29.49  
 38.884 3.875 0.336 1.00 28.18  
 40.876 4.065 1.686 1.00 23.60  
 41.029 2.998 0.604 1.00 29.05  
 39.640 2.581 0.319 1.00 28.36  
 41.917 5.122 1.500 1.00 22.87  
 42.944 5.119 2.182 1.00 30.07  
 41.700 5.983 0.511 1.00 18.80  
 42.656 7.049 0.264 1.00 22.21  
 42.594 7.573 -1.160 1.00 26.28  
 41.214 7.564 -1.765 1.00 40.23  
 40.901 6.347 -2.617 1.00 42.05  
 41.727 6.004 -3.504 1.00 44.65  
 39.799 5.779 -2.453 1.00 44.07  
 42.547 8.164 1.300 1.00 21.07  
 43.528 8.877 1.543 1.00 20.78  
 41.375 8.304 1.940 1.00 20.24  
 41.233 9.304 2.996 1.00 16.52  
 39.775 9.658 3.319 1.00 17.57  
 39.158 10.807 2.420 1.00 15.02  
 40.199 12.320 2.187 1.00 20.17  
 40.632 12.648 3.877 1.00 13.20  
 41.974 8.751 4.191 1.00 20.41  
 42.772 9.461 4.787 1.00 25.79  
 41.836 7.448 4.445 1.00 20.30  
 42.565 6.817 5.540 1.00 17.65  
 42.082 5.394 5.832 1.00 21.89  
 42.786 4.775 7.041 1.00 26.17  
 42.702 5.353 8.325 1.00 20.81  
 43.364 4.781 9.427 1.00 17.33  
 43.554 3.612 6.900 1.00 26.03  
 44.225 3.034 7.998 1.00 12.75  
 44.124 3.615 9.245 1.00 16.64  
 44.791 2.999 10.281 1.00 17.57  
 44.077 6.847 5.267 1.00 14.28  
 44.892 7.066 6.179 1.00 19.62  
 44.479 6.693 4.022 1.00 12.55

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FIG. 7(47)

ATOM 2323 CA GLN 1137	45.903	6.777	3.758	1.00	16.34
ATOM 2324 CB GLN 1137	46.218	6.412	2.325	1.00	18.36
ATOM 2325 CG GLN 1137	47.702	6.654	1.945	1.00	21.79
ATOM 2326 CD GLN 1137	48.613	5.655	2.561	1.00	14.21
ATOM 2327 OE1 GLN 1137	48.416	4.469	2.381	1.00	22.64
ATOM 2328 NE2 GLN 1137	49.571	6.111	3.344	1.00	18.97
ATOM 2331 C GLN 1137	46.415	8.193	4.041	1.00	20.40
ATOM 2332 O GLN 1137	47.598	8.378	4.391	1.00	25.11
ATOM 2333 N THR 1138	45.564	9.194	3.807	1.00	18.65
ATOM 2335 CA THR 1138	45.939	10.568	4.068	1.00	15.52
ATOM 2336 CB THR 1138	44.921	11.507	3.538	1.00	19.97
ATOM 2337 OG1 THR 1138	44.797	11.257	2.144	1.00	18.74
ATOM 2339 CG2 THR 1138	45.381	12.939	3.722	1.00	21.70
ATOM 2340 C THR 1138	46.111	10.721	5.566	1.00	12.73
ATOM 2341 O THR 1138	47.067	11.344	6.010	1.00	18.83
ATOM 2342 N MET 1139	45.233	10.118	6.352	1.00	9.32
ATOM 2344 CA MET 1139	45.402	10.151	7.809	1.00	12.25
ATOM 2345 CB MET 1139	44.295	9.349	8.480	1.00	13.21
ATOM 2346 CG MET 1139	42.967	10.007	8.354	1.00	5.60
ATOM 2347 SD MET 1139	41.708	8.982	9.003	1.00	17.66
ATOM 2348 CE MET 1139	40.510	9.337	7.925	1.00	2.00
ATOM 2349 C MET 1139	46.773	9.567	8.198	1.00	15.96
ATOM 2350 O MET 1139	47.573	10.237	8.855	1.00	17.30
ATOM 2351 N LEU 1140	47.058	8.333	7.770	1.00	15.29
ATOM 2353 CA LEU 1140	48.357	7.735	8.081	1.00	14.20
ATOM 2354 CB LEU 1140	48.542	6.409	7.326	1.00	6.27
ATOM 2355 CG LEU 1140	47.511	5.373	7.745	1.00	15.42
ATOM 2356 CD1 LEU 1140	47.656	4.103	6.927	1.00	8.64
ATOM 2357 CD2 LEU 1140	47.648	5.103	9.246	1.00	14.99
ATOM 2358 C LEU 1140	49.518	8.684	7.751	1.00	17.20
ATOM 2359 O LEU 1140	50.552	8.691	8.442	1.00	18.73
ATOM 2360 N ASP 1141	49.396	9.413	6.644	1.00	20.16
ATOM 2362 CA ASP 1141	50.442	10.374	6.229	1.00	19.52
ATOM 2363 CB ASP 1141	50.139	10.963	4.851	1.00	20.89
ATOM 2364 CG ASP 1141	50.228	9.942	3.772	1.00	25.01
ATOM 2365 OD1 ASP 1141	50.537	8.765	4.074	1.00	30.17
ATOM 2366 OD2 ASP 1141	49.994	10.321	2.624	1.00	26.42
ATOM 2367 C ASP 1141	50.627	11.521	7.207	1.00	15.10
ATOM 2368 O ASP 1141	51.762	11.905	7.502	1.00	8.73
ATOM 2369 N CYS 1142	49.504	12.101	7.637	1.00	10.75

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FIG. 7(48)

ATOM 2371 CA CYS 1142  
 ATOM 2372 CB CYS 1142  
 ATOM 2373 SG CYS 1142  
 ATOM 2374 C CYS 1142  
 ATOM 2375 O CYS 1142  
 ATOM 2376 N TRP 1143  
 ATOM 2378 CA TRP 1143  
 ATOM 2379 CB TRP 1143  
 ATOM 2380 CG TRP 1143  
 ATOM 2381 CD2 TRP 1143  
 ATOM 2382 CE2 TRP 1143  
 ATOM 2383 CE3 TRP 1143  
 ATOM 2384 CD1 TRP 1143  
 ATOM 2385 NE1 TRP 1143  
 ATOM 2387 CZ2 TRP 1143  
 ATOM 2388 CZ3 TRP 1143  
 ATOM 2389 CH2 TRP 1143  
 ATOM 2390 C TRP 1143  
 ATOM 2391 O TRP 1143  
 ATOM 2392 N HIS 1144  
 ATOM 2394 CA HIS 1144  
 ATOM 2395 CB HIS 1144  
 ATOM 2396 CG HIS 1144  
 ATOM 2397 CD2 HIS 1144  
 ATOM 2398 ND1 HIS 1144  
 ATOM 2400 CE1 HIS 1144  
 ATOM 2401 NE2 HIS 1144  
 ATOM 2403 C HIS 1144  
 ATOM 2404 O HIS 1144  
 ATOM 2405 N GLY 1145  
 ATOM 2407 CA GLY 1145  
 ATOM 2408 C GLY 1145  
 ATOM 2409 O GLY 1145  
 ATOM 2410 N GLU 1146  
 ATOM 2412 CA GLU 1146  
 ATOM 2413 CB GLU 1146  
 ATOM 2414 CG GLU 1146  
 ATOM 2415 CD GLU 1146  
 ATOM 2416 OE1 GLU 1146  
 ATOM 2417 OE2 GLU 1146

49.516 13.196 8.590 1.00 13.88  
 48.110 13.776 8.739 1.00 17.83  
 47.414 14.574 7.291 1.00 17.66  
 50.042 12.717 9.961 1.00 15.52  
 50.545 13.513 10.734 1.00 16.31  
 49.883 11.424 10.266 1.00 20.06  
 50.344 10.830 11.528 1.00 17.66  
 49.393 9.727 11.991 1.00 15.44  
 48.041 10.236 12.273 1.00 14.25  
 46.814 9.495 12.233 1.00 18.13  
 45.774 10.401 12.540 1.00 12.59  
 46.490 8.143 11.966 1.00 16.02  
 47.710 11.514 12.605 1.00 7.90  
 46.355 11.618 12.768 1.00 13.52  
 44.425 10.012 12.592 1.00 8.83  
 45.155 7.755 12.017 1.00 11.61  
 44.133 8.691 12.327 1.00 16.83  
 51.765 10.281 11.442 1.00 23.22  
 52.208 9.507 12.298 1.00 27.31  
 52.510 10.722 10.440 1.00 24.48  
 53.876 10.280 10.299 1.00 26.08  
 54.495 10.859 9.023 1.00 19.25  
 55.791 10.214 8.654 1.00 18.57  
 56.923 10.003 9.374 1.00 14.60  
 56.016 9.657 7.415 1.00 19.61  
 57.231 9.133 7.387 1.00 19.99  
 57.803 9.332 8.562 1.00 15.04  
 54.710 10.671 11.542 1.00 32.65  
 54.626 11.795 12.031 1.00 31.70  
 55.541 9.734 12.016 1.00 37.26  
 56.393 9.970 13.168 1.00 31.32  
 57.251 11.212 13.001 1.00 35.04  
 57.372 11.989 13.942 1.00 38.42  
 57.915 11.373 11.852 1.00 34.51  
 58.735 12.577 11.598 1.00 37.16  
 59.871 12.303 10.627 1.00 37.16  
 61.093 11.742 11.292 1.00 50.26  
 61.186 10.243 11.110 1.00 54.17  
 61.158 9.509 12.125 1.00 55.25  
 61.280 9.804 9.938 1.00 59.09

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ATOM 2418 C GLU 1146	57.910	13.742	11.052	1.00	36.46
ATOM 2419 O GLU 1146	57.378	13.665	9.934	1.00	35.72
ATOM 2420 N PRO 1147	57.861	14.868	11.791	1.00	34.09
ATOM 2421 CD PRO 1147	58.490	15.147	13.099	1.00	33.72
ATOM 2422 CA PRO 1147	57.082	16.020	11.336	1.00	29.77
ATOM 2423 CB PRO 1147	57.446	17.106	12.351	1.00	27.86
ATOM 2424 CG PRO 1147	57.668	16.334	13.619	1.00	26.72
ATOM 2425 C PRO 1147	57.436	16.417	9.922	1.00	27.04
ATOM 2426 O PRO 1147	56.559	16.784	9.158	1.00	30.21
ATOM 2427 N SER 1148	58.698	16.255	9.551	1.00	22.56
ATOM 2429 CA SER 1148	59.177	16.616	8.210	1.00	24.23
ATOM 2430 CB SER 1148	60.707	16.724	8.203	1.00	27.40
ATOM 2431 OG SER 1148	61.314	15.477	8.545	1.00	36.19
ATOM 2433 C SER 1148	58.743	15.674	7.101	1.00	21.41
ATOM 2434 O SER 1148	58.890	15.964	5.913	1.00	24.41
ATOM 2435 N GLN 1149	58.272	14.508	7.485	1.00	25.45
ATOM 2437 CA GLN 1149	57.831	13.547	6.497	1.00	26.28
ATOM 2438 CB GLN 1149	58.224	12.142	6.946	1.00	32.79
ATOM 2439 CG GLN 1149	59.705	11.907	6.958	1.00	25.96
ATOM 2440 CD GLN 1149	60.279	12.196	5.622	1.00	32.77
ATOM 2441 OE1 GLN 1149	59.765	11.744	4.591	1.00	36.63
ATOM 2442 NE2 GLN 1149	61.312	13.007	5.604	1.00	37.86
ATOM 2445 C GLN 1149	56.327	13.670	6.278	1.00	23.40
ATOM 2446 O GLN 1149	55.783	13.145	5.306	1.00	23.12
ATOM 2447 N ARG 1150	55.662	14.339	7.215	1.00	22.72
ATOM 2449 CA ARG 1150	54.226	14.581	7.132	1.00	17.86
ATOM 2450 CB ARG 1150	53.721	15.243	8.392	1.00	16.38
ATOM 2451 CG ARG 1150	54.161	14.532	9.598	1.00	13.96
ATOM 2452 CD ARG 1150	53.285	14.903	10.728	1.00	15.08
ATOM 2453 NE ARG 1150	53.632	14.090	11.879	1.00	24.55
ATOM 2455 CZ ARG 1150	54.066	14.564	13.040	1.00	27.63
ATOM 2456 NH1 ARG 1150	54.192	15.871	13.230	1.00	27.18
ATOM 2459 NH2 ARG 1150	54.423	13.717	13.991	1.00	29.34
ATOM 2462 C ARG 1150	54.025	15.559	6.008	1.00	16.82
ATOM 2463 O ARG 1150	54.913	16.382	5.715	1.00	13.09
ATOM 2464 N PRO 1151	52.873	15.464	5.320	1.00	18.01
ATOM 2465 CD PRO 1151	51.793	14.453	5.320	1.00	6.32
ATOM 2466 CA PRO 1151	52.726	16.442	4.240	1.00	18.95
ATOM 2467 CB PRO 1151	51.489	15.948	3.492	1.00	16.01
ATOM 2468 CG PRO 1151	50.726	15.092	4.520	1.00	10.59

FIG. 7(50)

ATOM 2469 C PRO 1151	52.574	17.861	4.805	1.00	18.27
ATOM 2470 O PRO 1151	52.422	18.039	6.006	1.00	19.70
ATOM 2471 N THR 1152	52.763	18.860	3.958	1.00	19.16
ATOM 2473 CA THR 1152	52.604	20.251	4.366	1.00	14.92
ATOM 2474 CB THR 1152	53.511	21.138	3.560	1.00	13.80
ATOM 2475 OG1 THR 1152	53.146	21.080	2.163	1.00	17.02
ATOM 2477 CG2 THR 1152	54.918	20.697	3.764	1.00	5.40
ATOM 2478 C THR 1152	51.196	20.571	3.979	1.00	13.16
ATOM 2479 O THR 1152	50.682	19.905	3.084	1.00	19.18
ATOM 2480 N PHE 1153	50.561	21.572	4.599	1.00	14.62
ATOM 2482 CA PHE 1153	49.176	21.910	4.224	1.00	12.87
ATOM 2483 CB PHE 1153	48.588	23.023	5.083	1.00	11.95
ATOM 2484 CG PHE 1153	48.157	22.558	6.422	1.00	9.67
ATOM 2485 CD1 PHE 1153	47.037	21.740	6.560	1.00	14.91
ATOM 2486 CD2 PHE 1153	48.891	22.857	7.533	1.00	15.01
ATOM 2487 CE1 PHE 1153	46.660	21.215	7.802	1.00	9.44
ATOM 2488 CE2 PHE 1153	48.529	22.340	8.789	1.00	13.43
ATOM 2489 CZ PHE 1153	47.405	21.513	8.913	1.00	8.41
ATOM 2490 C PHE 1153	49.073	22.253	2.750	1.00	16.98
ATOM 2491 O PHE 1153	48.078	21.927	2.114	1.00	21.60
ATOM 2492 N SER 1154	50.116	22.841	2.168	1.00	15.39
ATOM 2494 CA SER 1154	50.031	23.123	0.754	1.00	17.55
ATOM 2495 CB SER 1154	51.251	23.868	0.254	1.00	25.28
ATOM 2496 OG SER 1154	51.244	25.190	0.776	1.00	33.35
ATOM 2498 C SER 1154	49.850	21.815	0.022	1.00	20.26
ATOM 2499 O SER 1154	48.932	21.704	-0.798	1.00	23.74
ATOM 2500 N GLU 1155	50.670	20.808	0.347	1.00	19.47
ATOM 2502 CA GLU 1155	50.534	19.493	-0.307	1.00	16.55
ATOM 2503 CB GLU 1155	51.588	18.513	0.188	1.00	19.82
ATOM 2504 CG GLU 1155	52.932	18.773	-0.486	1.00	20.20
ATOM 2505 CD GLU 1155	54.128	18.210	0.249	1.00	23.11
ATOM 2506 OE1 GLU 1155	55.226	18.377	-0.312	1.00	35.76
ATOM 2507 OE2 GLU 1155	54.009	17.631	1.359	1.00	21.09
ATOM 2508 C GLU 1155	49.153	18.918	-0.107	1.00	16.59
ATOM 2509 O GLU 1155	48.548	18.414	-1.055	1.00	21.37
ATOM 2510 N LEU 1156	48.619	19.034	1.101	1.00	16.01
ATOM 2512 CA LEU 1156	47.272	18.532	1.375	1.00	18.06
ATOM 2513 CB LEU 1156	46.969	18.521	2.875	1.00	15.74
ATOM 2514 CG LEU 1156	47.688	17.493	3.759	1.00	11.35
ATOM 2515 CD1 LEU 1156	47.786	18.049	5.201	1.00	2.08

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46.927	16.150	3.708	1.00	14.36
46.165	19.287	0.638	1.00	20.03
45.105	18.711	0.355	1.00	26.86
46.354	20.570	0.355	1.00	21.44
45.303	21.283	-0.362	1.00	21.15
45.513	22.801	-0.381	1.00	21.33
44.569	23.453	-1.368	1.00	15.98
45.198	23.340	0.974	1.00	13.87
45.270	20.721	-1.760	1.00	22.88
44.198	20.508	-2.333	1.00	25.54
46.445	20.400	-2.282	1.00	23.10
46.503	19.815	-3.603	1.00	27.24
47.922	19.756	-4.115	1.00	32.82
47.969	18.978	-5.404	1.00	44.73
49.187	19.268	-6.212	1.00	51.53
49.007	19.887	-7.292	1.00	54.31
50.298	18.869	-5.765	1.00	51.10
45.939	18.403	-3.643	1.00	26.42
45.167	18.051	-4.546	1.00	25.91
46.347	17.591	-2.669	1.00	26.36
45.897	16.226	-2.611	1.00	21.52
46.674	15.444	-1.576	1.00	25.28
46.322	13.991	-1.545	1.00	24.66
46.408	13.030	-2.497	1.00	24.44
45.749	13.387	-0.452	1.00	21.30
45.489	12.125	-0.731	1.00	23.16
45.879	11.884	-1.961	1.00	19.88
44.402	16.104	-2.391	1.00	21.56
43.741	15.311	-3.066	1.00	22.19
43.852	16.874	-1.456	1.00	20.25
42.408	16.832	-1.209	1.00	17.66
42.111	17.502	0.130	1.00	17.84
42.676	16.760	1.352	1.00	20.17
42.472	17.542	2.619	1.00	21.45
41.992	15.454	1.512	1.00	19.45
41.566	17.418	-2.395	1.00	17.71
40.426	17.030	-2.624	1.00	15.39
42.130	18.356	-3.153	1.00	23.52
41.434	18.879	-4.322	1.00	21.37
41.342	17.741	-5.346	1.00	23.91

FIG. 7(52)

ATOM 2563 O GLY 1161  
 ATOM 2564 N ASN 1162  
 ATOM 2566 CA ASN 1162  
 ATOM 2567 CB ASN 1162  
 ATOM 2568 CG ASN 1162  
 ATOM 2569 OD1 ASN 1162  
 ATOM 2570 ND2 ASN 1162  
 ATOM 2573 C ASN 1162  
 ATOM 2574 O ASN 1162  
 ATOM 2575 N LEU 1163  
 ATOM 2577 CA LEU 1163  
 ATOM 2578 CB LEU 1163  
 ATOM 2579 CG LEU 1163  
 ATOM 2580 CD1 LEU 1163  
 ATOM 2581 CD2 LEU 1163  
 ATOM 2582 C LEU 1163  
 ATOM 2583 O LEU 1163  
 ATOM 2584 N LEU 1164  
 ATOM 2586 CA LEU 1164  
 ATOM 2587 CB LEU 1164  
 ATOM 2588 CG LEU 1164  
 ATOM 2589 CD1 LEU 1164  
 ATOM 2590 CD2 LEU 1164  
 ATOM 2592 O LEU 1164  
 ATOM 2593 N GLN 1165  
 ATOM 2595 CA GLN 1165  
 ATOM 2596 CB GLN 1165  
 ATOM 2597 CG GLN 1165  
 ATOM 2598 CD GLN 1165  
 ATOM 2599 OE1 GLN 1165  
 ATOM 2600 NE2 GLN 1165  
 ATOM 2603 C GLN 1165  
 ATOM 2604 O GLN 1165  
 ATOM 2605 N ALA 1166  
 ATOM 2607 CA ALA 1166  
 ATOM 2608 CB ALA 1166  
 ATOM 2609 C ALA 1166  
 ATOM 2610 O ALA 1166  
 ATOM 2611 N ASN 1167  
 ATOM 2613 CA ASN 1167

40.295 17.526 -5.971 1.00 23.05  
 42.439 16.997 -5.520 1.00 21.49  
 42.428 15.854 -6.428 1.00 22.31  
 43.771 15.109 -6.427 1.00 22.34  
 44.904 15.888 -7.062 1.00 20.03  
 44.705 16.903 -7.701 1.00 28.17  
 46.117 15.401 -6.873 1.00 32.22  
 41.356 14.851 -5.969 1.00 23.05  
 40.570 14.378 -6.769 1.00 26.11  
 41.360 14.490 -4.688 1.00 21.05  
 40.405 13.523 -4.166 1.00 19.91  
 40.695 13.172 -2.689 1.00 19.18  
 41.675 12.042 -2.275 1.00 18.62  
 42.959 12.120 -3.020 1.00 24.35  
 41.983 12.043 -0.804 1.00 14.82  
 39.015 14.038 -4.331 1.00 19.71  
 38.110 13.318 -4.767 1.00 23.11  
 38.860 15.328 -4.121 1.00 25.91  
 37.533 15.941 -4.226 1.00 29.28  
 37.603 17.388 -3.726 1.00 31.25  
 36.348 18.176 -3.371 1.00 25.75  
 35.429 17.396 -2.435 1.00 31.52  
 7.018 15.866 -5.653 1.00 30.07  
 35.953 15.330 -5.903 1.00 32.61  
 37.810 16.344 -6.598 1.00 33.76  
 37.423 16.317 -8.003 1.00 39.95  
 38.451 17.048 -8.855 1.00 46.90  
 38.758 18.474 -8.480 1.00 49.81  
 39.874 19.024 -9.348 1.00 56.23  
 41.056 18.945 -8.997 1.00 55.97  
 39.508 19.536 -10.518 1.00 60.66  
 37.304 14.898 -8.554 1.00 39.33  
 36.652 14.685 -9.568 1.00 42.09  
 38.059 13.965 -7.988 1.00 36.82  
 37.994 12.586 -8.441 1.00 34.66  
 39.096 11.748 -7.814 1.00 32.78  
 36.640 12.103 -7.991 1.00 36.63  
 35.969 11.381 -8.713 1.00 39.47  
 36.226 12.532 -6.800 1.00 40.01  
 34.911 12.158 -6.264 1.00 42.40

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FIG. 7(53)

ATOM 2614 CB ASN 1167  
 ATOM 2615 CG ASN 1167  
 ATOM 2616 OD1 ASN 1167  
 ATOM 2617 ND2 ASN 1167  
 ATOM 2620 C ASN 1167  
 ATOM 2621 O ASN 1167  
 ATOM 2622 N ALA 1168  
 ATOM 2624 CA ALA 1168  
 ATOM 2625 CB ALA 1168  
 ATOM 2626 C ALA 1168  
 ATOM 2628 O ALA 1168  
 ATOM 2629 O HOH 1  
 ATOM 2632 O HOH 2  
 ATOM 2635 O HOH 3  
 ATOM 2638 O HOH 4  
 ATOM 2641 O HOH 5  
 ATOM 2644 O HOH 6  
 ATOM 2647 O HOH 7  
 ATOM 2650 O HOH 8  
 ATOM 2653 O HOH 9  
 ATOM 2656 O HOH 10  
 ATOM 2659 O HOH 11  
 ATOM 2662 O HOH 12  
 ATOM 2665 O HOH 13  
 ATOM 2668 O HOH 14  
 ATOM 2671 O HOH 15  
 ATOM 2674 O HOH 16  
 ATOM 2677 O HOH 17  
 ATOM 2680 O HOH 18  
 ATOM 2683 O HOH 19  
 ATOM 2686 O HOH 20  
 ATOM 2689 O HOH 21  
 ATOM 2692 O HOH 22  
 ATOM 2695 O HOH 23  
 ATOM 2698 O HOH 24  
 ATOM 2701 O HOH 25  
 ATOM 2704 O HOH 26  
 ATOM 2707 O HOH 27  
 ATOM 2710 O HOH 28  
 ATOM 2713 O HOH 29

34.641 12.878 -4.919 1.00 42.99  
 33.354 12.409 -4.242 1.00 40.80  
 32.306 13.046 -4.348 1.00 40.18  
 33.436 11.294 -3.532 1.00 36.58  
 33.822 12.498 -7.299 1.00 41.88  
 32.837 11.789 -7.391 1.00 41.83  
 34.057 13.558 -8.085 1.00 45.09  
 33.187 14.065 -9.160 1.00 46.02  
 32.507 12.933 -9.929 1.00 45.92  
 32.181 15.123 -8.728 1.00 48.61  
 32.627 16.233 -8.363 1.00 50.20  
 46.858 21.496 16.690 1.00 23.54  
 49.904 21.605 17.271 1.00 36.65  
 49.682 18.133 17.657 1.00 50.47  
 56.606 19.394 15.202 1.00 25.28  
 57.215 21.949 11.395 1.00 37.66  
 56.082 25.850 12.933 1.00 34.63  
 52.355 23.016 6.377 1.00 21.45  
 51.153 27.376 4.088 1.00 29.93  
 44.820 28.454 1.120 1.00 16.47  
 46.377 38.321 5.198 1.00 31.93  
 43.987 38.133 3.129 1.00 52.41  
 53.321 40.451 6.702 1.00 31.88  
 44.977 49.530 8.305 1.00 44.56  
 44.379 43.338 7.798 1.00 31.72  
 39.477 40.232 8.468 1.00 36.65  
 41.987 36.751 10.646 1.00 23.26  
 41.711 41.873 6.802 1.00 34.79  
 29.514 24.656 18.739 1.00 31.43  
 27.493 22.351 15.517 1.00 42.03  
 24.345 20.097 15.325 1.00 24.92  
 32.381 18.452 20.520 1.00 75.12  
 31.071 8.282 19.507 1.00 31.68  
 33.001 7.742 21.598 1.00 38.67  
 34.802 6.439 18.667 1.00 34.24  
 32.273 6.932 14.174 1.00 41.21  
 34.059 5.245 12.870 1.00 49.30  
 38.059 3.432 4.799 1.00 63.69  
 41.089 1.841 4.421 1.00 42.86  
 45.081 9.234 -0.557 1.00 39.97

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[illegible]

47.301	11.215	1.271	1.00	58.47
50.046	14.055	0.168	1.00	37.58
54.425	8.937	4.821	1.00	36.74
52.279	7.099	5.152	1.00	13.04
53.025	7.510	7.740	1.00	25.53
50.852	6.818	10.462	1.00	18.29
46.448	7.762	15.254	1.00	9.08
47.326	3.930	20.460	1.00	34.16
48.264	12.367	20.804	1.00	22.14
44.276	8.193	24.312	1.00	40.52
37.491	11.237	25.975	1.00	38.71
37.592	13.565	23.164	1.00	44.55
34.887	12.418	26.235	1.00	50.96
24.823	15.933	17.377	1.00	33.72
23.302	7.532	7.049	1.00	57.56
29.954	11.864	-3.109	1.00	38.05
42.099	3.812	18.044	1.00	40.12
38.653	0.737	18.003	1.00	37.30
34.169	14.465	16.707	1.00	20.01
37.055	32.622	16.570	1.00	31.20
29.361	31.729	15.460	1.00	21.90
25.866	31.495	10.192	1.00	24.50
23.411	32.276	10.616	1.00	68.85
22.135	37.404	8.648	1.00	40.22
28.356	36.997	10.747	1.00	22.41
29.650	33.190	8.897	1.00	31.98
34.801	35.904	3.297	1.00	59.73
24.341	20.715	4.934	1.00	28.10
37.439	20.236	25.832	1.00	33.07
32.675	51.977	19.122	1.00	33.52
32.722	54.003	14.118	1.00	25.01
29.691	54.769	22.004	1.00	27.32
21.347	47.577	14.711	1.00	27.85
25.640	44.257	7.516	1.00	24.71
24.686	40.916	3.785	1.00	55.13
33.825	48.721	10.105	1.00	39.11
39.855	54.415	18.247	1.00	50.97
36.001	50.053	7.081	1.00	68.99
37.973	50.651	5.331	1.00	32.12
40.220	53.227	6.506	1.00	15.02





FIG. 7(56)

ATOM 2956 O HOH 110	29.849	56.131	16.966	1.00	37.29
ATOM 2959 O HOH 111	31.503	58.023	14.735	1.00	46.45
ATOM 2962 O HOH 112	35.212	55.981	10.499	1.00	92.07
ATOM 2965 O HOH 113	36.530	55.812	6.656	1.00	30.72
ATOM 2968 O HOH 114	50.045	41.251	26.059	1.00	82.26
ATOM 2971 O HOH 115	25.153	36.460	9.054	1.00	50.86
ATOM 2974 O HOH 116	31.749	32.705	15.359	1.00	30.04
ATOM 2977 O HOH 117	30.213	3.806	4.940	1.00	39.74
ATOM 2980 O HOH 118	36.511	1.159	7.275	1.00	41.62
ATOM 2983 O HOH 119	27.155	4.637	5.224	1.00	79.92
ATOM 2986 O HOH 120	57.319	11.287	3.459	1.00	33.02
ATOM 2989 O HOH 121	52.121	12.483	1.755	1.00	45.55
ATOM 2992 O HOH 122	47.613	14.088	-5.021	1.00	41.01
ATOM 2995 O HOH 123	57.550	26.628	16.551	1.00	30.62
ATOM 2998 O HOH 124	32.338	10.125	23.559	1.00	35.48
ATOM 3001 O HOH 125	31.065	5.698	3.273	1.00	42.74
ATOM 3004 O HOH 126	32.603	4.523	1.410	1.00	33.30
ATOM 3007 O HOH 127	34.394	2.617	4.702	1.00	42.12
ATOM 3010 O HOH 128	37.961	10.373	-4.287	1.00	47.57
ATOM 3013 O HOH 129	42.215	11.947	-6.970	1.00	45.13
ATOM 3016 O HOH 130	46.307	8.952	-4.280	1.00	70.02
ATOM 3019 O HOH 131	50.369	17.388	-3.277	1.00	42.22
ATOM 3022 O HOH 132	47.231	21.866	22.930	1.00	50.84
ATOM 3025 O HOH 133	45.362	17.669	27.147	1.00	48.06
ATOM 3028 O HOH 134	27.005	23.141	18.124	1.00	49.65
ATOM 3031 O HOH 135	45.726	12.511	-6.453	1.00	45.31
ATOM 3034 O HOH 136	46.998	11.755	18.088	1.00	37.38
ATOM 3037 O HOH 137	39.706	37.699	9.894	1.00	40.71
ATOM 3040 O HOH 138	18.768	48.678	17.798	1.00	74.62
ATOM 3043 O HOH 139	43.641	47.080	26.762	1.00	44.64
ATOM 3046 O HOH 140	32.593	53.980	16.744	1.00	43.95
ATOM 3049 O HOH 141	34.726	55.568	14.399	1.00	45.86
ATOM 3052 O HOH 142	30.551	53.227	19.638	1.00	35.99
ATOM 3055 O HOH 143	26.370	55.161	14.300	1.00	33.09
ATOM 3058 O HOH 144	24.547	55.803	6.815	1.00	58.70
ATOM 3061 O HOH 145	36.217	52.574	3.221	1.00	68.48
ATOM 3064 O HOH 146	39.065	54.455	4.595	1.00	48.85
ATOM 3067 O HOH 147	45.130	40.725	5.433	1.00	62.58
ATOM 3070 O HOH 148	33.453	43.988	7.386	1.00	41.59
ATOM 3073 O HOH 149	36.626	45.045	6.144	1.00	54.04

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FIG. 7(57)

ATOM 3076 O HOH 150  
 ATOM 3079 O HOH 151  
 ATOM 3082 O HOH 152  
 ATOM 3085 O HOH 153  
 ATOM 3088 O HOH 154  
 ATOM 3091 O HOH 155  
 ATOM 3094 O HOH 156  
 ATOM 3097 O HOH 157  
 ATOM 3100 O HOH 158  
 ATOM 3103 O HOH 159  
 ATOM 3106 O HOH 160  
 ATOM 3109 O HOH 161  
 ATOM 3112 O HOH 162  
 ATOM 3115 O HOH 163  
 ATOM 3118 O HOH 164  
 ATOM 3121 O HOH 165  
 ATOM 3124 O HOH 166  
 ATOM 3127 O HOH 167  
 ATOM 3130 O HOH 168  
 ATOM 3133 O HOH 169  
 ATOM 3136 O HOH 170  
 ATOM 3139 O HOH 171  
 ATOM 3142 O HOH 172  
 ATOM 3145 O HOH 173  
 ATOM 3148 O HOH 174  
 ATOM 3151 O HOH 175  
 ATOM 3154 O HOH 176  
 ATOM 3157 O HOH 177  
 ATOM 3160 O HOH 178  
 ATOM 3163 O HOH 179  
 ATOM 3166 O HOH 180  
 ATOM 3169 O HOH 181  
 ATOM 3172 O HOH 182

19.458 36.977 14.386 1.00 56.50  
 19.502 40.993 17.850 1.00 43.35  
 39.793 38.257 27.760 1.00 63.31  
 40.730 53.944 20.682 1.00 49.91  
 45.371 49.402 5.710 1.00 41.53  
 49.114 26.038 11.482 1.00 34.43  
 54.085 28.403 10.828 1.00 28.60  
 18.729 14.990 12.752 1.00 44.66  
 27.500 2.046 10.138 1.00 47.88  
 23.505 7.763 16.082 1.00 45.49  
 38.101 22.326 23.406 1.00 43.42  
 36.788 33.961 0.261 1.00 59.95  
 19.380 27.777 6.595 1.00 56.29  
 33.583 33.343 17.339 1.00 68.25  
 43.221 53.467 17.853 1.00 62.89  
 28.154 41.110 29.042 1.00 61.19  
 44.877 47.914 12.583 1.00 21.27  
 46.589 45.908 14.329 1.00 39.48  
 48.235 43.490 14.297 1.00 46.88  
 47.834 0.528 14.762 1.00 74.55  
 48.711 -2.009 16.386 1.00 52.45  
 41.210 0.396 17.381 1.00 58.05  
 43.837 1.538 17.483 1.00 72.30  
 41.780 -2.478 14.396 1.00 47.15  
 31.466 11.699 21.418 1.00 45.99  
 35.046 14.218 20.429 1.00 39.37  
 22.639 26.143 4.324 1.00 36.80  
 26.114 24.452 6.028 1.00 31.04  
 28.927 30.687 4.252 1.00 41.38  
 23.899 6.610 18.621 1.00 56.43  
 53.386 11.969 4.493 1.00 39.86  
 30.051 43.727 0.910 1.00 47.97  
 31.659 49.099 8.149 1.00 52.84

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